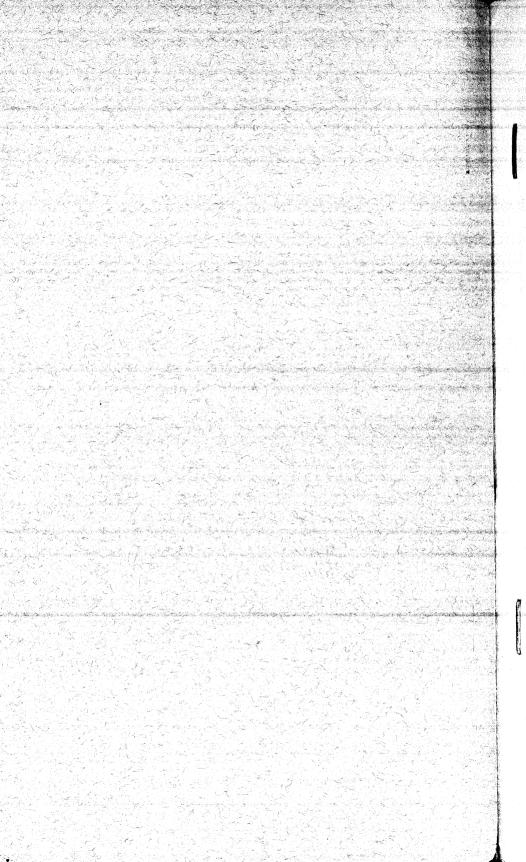
RESULTS OF OBSERVATIONS MADE AT THE MAGNETIC OBSERVATORY AT VIEQUES, P. R., IN 1921 AND 1922

DEPARTMENT OF COMMERCE

> U.S. COAST AND GEODETIC SURVEY

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Serial No. 292

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR

RESULTS OF OBSERVATIONS MADE AT THE UNITED STATES COAST AND GEODETIC SURVEY MAGNETIC OBSERVATORY AT VIEQUES, P. R., IN 1921 AND 1922

BY

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INSTRUMENTS

VARIATION INSTRUMENTS

The magnetograph is of the Eschenhagen pattern and consists of a recording apparatus and declination (D), horizontal intensity (H), and vertical intensity (Z) variometers. Increasing ordinates (upward motion of the curves) correspond to increasing west declination, increasing H, and increasing Z. Variations in temperature were obtained from the record of the photographically recording thermograph inclosed in the Z variometer. The seasonal variation was small and the range in the course of a day was ordinarily not more than two or three tenths of a degree.

Monthly and annual range of temperature (centigrade)

24		1921		1922				
${f Month}$	Maximum	Minimum	Mean	Maximum	Minimum	Mean		
		۰	•	0		0		
January February March April May June	26. 3 26. 0 27. 5	23. 7 24. 6 24. 2 24. 4 26. 6 27. 5	25. 6 25. 7 25. 2 25. 6 27. 4 28. 4	26. 9 27. 3 26. 4 27. 1 28. 9 29. 0	24. 8 24. 9 24. 9 24. 8 26. 4 27. 5	25. 9 25. 7 25. 6 26. 0 27. 6 28. 2		
July	30. 2 29. 6 28. 4	27. 3 27. 9 27. 5 27. 4 26. 5 25. 9	28. 1 28. 5 28. 5 28. 0 27. 2 26. 6	29. 1 29. 1 29. 1 28. 8 28. 2 27. 4	28. 1 27. 7 27. 8 26. 5 26. 3 25. 6	28. 7 28. 5 28. 5 27. 6 27. 2 26. 5		
Year	30. 2	23.7	27. 1	29.1	24.8	27. 2		

ABSOLUTE INSTRUMENTS

India Magnetic Survey pattern magnetometer No. 31; Schulze earth inductor No. 1.

SEISMOGRAPH

A Bosch-Omori seismograph was kept in continuous operation. The recorded earthquakes will be found tabulated on pages 96-97.

TIME

Observations were made about once a week with a sextant, using the method of equal altitudes of the sun.

CONSTANTS OF THE MAGNETOGRAPH

DECLINATION

Scale value.—One millimeter on the magnetogram = 1'.02.

HORIZONTAL INTENSITY

• Scale value.—Deflection observations at two distances were made once a month. As a rule the results show the usual variation of scale value with ordinate, represented by the following formulas, in which h is the ordinate in millimeters.

Jan. 1 to Dec. 31, 1921	$\epsilon_h = 2.26\gamma + 0.005h$
Jan. 1 to Feb. 28, 1922	
June 19 to Sept. 30, 1922	$\epsilon_h = 2.21\gamma + .005h$
Nov. 10 to Dec. 31, 1922	$\epsilon_h = 2.26\gamma + .005h$

At the time of the scale value determinations of November 30 and December 9, 1921, the motion of the *H* magnet was apparently somewhat restricted. It is believed, however, that for the range ordinarily occurring during the day this effect was small, and the scale values adopted for that period are derived from the formula rather than from the observed values.

From March to June 19 and for the month of October, 1922, the *H* magnet was apparently not entirely free and the variation in scale values does not correspond to the variation in ordinate. Cleaning of the damping boxes on June 19 and on November 10 restored the freedom of motion.

H scale value

Date	ħ	Observed	Adopted	Date	h	Observed	Adopted
1921	mm	γ	γ	1922	mm	γ	γ
Jan. 31	21.0	2. 33	2. 43	Jan. 30	56. 4	2. 56	2. 50
Feb. 28	34.4	2. 41	2. 42	Feb. 27	47. 7	2. 53	2. 50
Mar. 31	33. 6	2. 45	2, 41	Mar. 31	44. 5	2. 64	2, 56
Apr. 30	13. 3	2. 32	2, 36		38. 6	2. 70	2, 62
June 2	10. 0	2. 30	2. 29	May 29	41. 5	2. 94	2. 72
June 30	12. 0	2. 34	2. 29	June 9	34. 8	2. 85	2. 75
Aug. 1	16. 6	2. 35	2. 28	June 29	32. 0	2. 38	2. 37
Sept. 1	—5. 0	2. 29	2. 28	July 10	29. 6	2. 37	2. 35
Sept. 10	40. 0	2. 49	2. 51	July 31	21. 6	2. 34	2. 30
Sept. 30	51. 3	2. 52	2. 51	Aug, 31	17. 0	2. 28	2. 28
Oct. 31	53. 1	2. 55	2. 51	Oct. 5	-24. 3	2. 51	2. 51
Nov. 30	56. 0	2. 84	2. 51	Oct. 30	18. 5	5. 18	2. 51
Dec. 9	50, 3	3, 04	2. 51	Nov. 27	19.1	2, 36	2. 32
Dec. 31		2, 54	2. 51	Dec. 30	-2.4	2, 24	2. 31

Temperature coefficient.—The same value was used as in previous years, namely: q = 0.00027 or 7.5γ for 1° C.

VERTICAL INTENSITY

Scale value.—Deflection observations at two distances were made at least once a month. A factor of the form $\left(1+\frac{P}{r^2}\right)$ was introduced in the computation formula to take account of the dissimilarity in the form of the D and Z magnets. The same value of P, namely 44.4, was used as in previous years, and the results for the two distances show satisfactory agreement. Changes in scale value occurred on January 10, 17, June 30, July 7, August 1, 27, November 30, December 9, 31, 1921; February 27, March 19, April 1, July 20, August 17, October 7, November 17, 27, 1922.

Z scale value

Date	Short distance	Long distance	Adopted	Date	Short distance	Long distance	Adopted
1921 Jan. 10 Jan. 20 Jan. 31 Feb. 28	γ 20, 43 5, 09 5, 12 5, 28	γ 21. 79 5. 20 5. 17 5. 28	γ 5. 15 5. 18 5. 25	1922 Jan. 2 Jan. 30 Mar. 9 Mar. 31	γ 2. 70 3. 17 4. 15 2. 65	γ 2. 73 3. 16 4. 27 2. 54	7 2. 69 3. 16 4. 21 2. 60
Mar. 31 Apr. 30 June 2 June 30	5. 31	5. 38 5. 38 5. 38 5. 19	5. 31 5. 34 5. 35 5. 21	Apr. 15 Apr. 29 May 29 June 9	5. 61 5. 39 5. 77 5. 71	5, 63 5, 32 5, 68 5, 73	5. 62 5. 62 5. 62 5. 62
July 11 Aug. 1 Aug. 5 Sept. 1	6. 50	6. 54 6. 54 2. 87 2. 76	6. 52 6. 52 2. 84 2. 75	June 29 July 31 Aug. 31 Oct. 5	5. 71 4. 05 4. 40 4. 51	5. 68 4. 17 4. 53 4. 48	5. 62 4. 11 4. 48 4. 48
Sept. 10 Sept. 30 Oct. 31 Dec. 9		2. 50 2. 81 2. 95 0. 99	2. 76 2. 80 2. 95	Oct. 30 Nov. 27 Dec. 8 Dec. 30	4, 79 3, 60 4, 86 4, 75	4. 83 3. 27 4. 86 4. 78	4, 81 3, 43 4, 81 4, 81

Temperature coefficient.—The Z temperature coefficient was redetermined from a comparison of the daily mean ordinates with the daily mean temperatures for short periods comparatively free from disturbance during which there was both a rise and fall of temperature. The results indicate that the adjustments of March 19 and July 20, 1922, produced a change of the temperature coefficient. The following values were adopted:

Jan. 1, 1921, to Mar. 19, 1922	q =	0.000175,	or	6γ for 1° C.	
Mar. 19 to July 14, 1922	q =	-0.00038,	\mathbf{or}	13γ for 1° C.	
July 20 to Dec. 31, 1922	$\hat{q} =$	-0.000175,	or	6γ for 1° C.	

ABSOLUTE OBSERVATIONS AND BASE-LINE VALUES

DECLINATION

Absolute observations were made one day a week, a day's observations consisting of four sets.

Abrupt changes of base-line value

	Date		Hour	Amount	Cause	
Apr. 8	1921		10–12	, +3.1	Cleaned damping box.	
			11-12 14-15	+3. 1 +16. 1	Adjusted. Adjusted by torsion.	
July 20 Dec. 11	1922	<i>;</i>	21-22 12-13	+4.6 8	Cleaned damping box. Torsion observations.	

Declination base-line values [3° west plus tabular minutes]

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1921	,	,	1921	,	,	1922	,	,
Jan. 3	20. 2	20.4	Aug. 23	26. 7	26, 6	Apr. 4	43.3	43. 5
Jan. 4	20. 4	20. 4	Aug. 30	26. 4	26. 6	Apr. 6	42.0	43. 5
Jan. 11	20. 5	20. 4			_0.0	Apr. 11	43. 6	43. 5
Jan. 19	20, 6	20.4	Sept. 6	26.3	26. 6	Apr. 18	43, 7	43. 5
Jan. 24	20, 5	20.4	Sept. 7	26.6	26. 6	Apr. 25	43. 4	43. 5
			Sept. 13	26.4	26. 6			
Feb. 2	20, 4	20. 5	Sept. 20	26.5	26.6	May 3	42.8	43. 4
Feb. 9	. 20, 2	20. 5	Sept. 22	27.3	26.6	May 12	42.9	43.4
Feb. 16		20, 5	Sept. 27		42.7	May 16	43. 2	43.4
Feb. 23	20, 5	20. 5				May 23	43. 2	43.4
			Oct. 4	42, 3	42.7	May 30	43. 1	43. 4
Mar. 2	20.4	20, 6	Oct. 11	42.7	42.7			
Mar. 3	20. 2	20.6	Oct. 19	42.7	42.7	June 6	43. 5	43. 3
Mar. 9	20. 9	20, 6	Oct. 26	42.8	42.7	June 13	43. 2	43. 3
Mar. 11	20. 7	20.6	Oct. 28	42.8	42.7	June 20	42. 9	43.3
Mar. 16	20, 6	20. 6				June 27	43. 4	43. 3
Mar. 22	20. 7	20.6	Nov. 1	42.3	42.7	1	20. 2	1
Mar. 29		20. 6	Nov. 8		42.7	July 5	43. 2	43. 2
Mar. 30		20.6	Nov. 15	42.6	42.7	July 11	43. 0	43. 2
		20.0	Nov. 22		43.7	July 22	47.8	47. 8
Apr. 5	20, 6	20. 6	Nov. 29	42.0	42.7	July 25	47. 7	47. 7
Apr. 12	24. 0	23. 7	1101120222	1-1.0		0 000		
Apr. 19	23. 6	23. 7	Dec. 6	42.6	42.7	Aug. 2	46.9	47. 6
Apr. 26	26. 8	26. 8	Dec. 13	42. 4	42.7	Aug. 22		47. 3
11p1.10		20.0	Dec. 20	42.8	42.7	Aug. 29		47. 3
May 3	26. 9	26. 8	Dec. 27	43. 4	42.7	1146. 20	1	1
May 10		26.8				Sept. 7	47. 2	47. 3
May 18		26. 8	1922		İ	Sept. 13	47.5	47. 3
May 25	26. 8	26. 8	Jan. 3	43.8	42. 9	Sept. 19		47. 3
May 31	26. 6	26.8	Jan. 10		42.9	Sept. 26	47.3	47. 3
			Jan. 17		43.0	Sopti Zozza	1	
June 7	26.4	26. 7	Jan. 24		43. 1	Oct. 10	47. 6	47. 3
June 14	26. 6	26. 7	Jan. 25	43. 4	43. 1	Oct. 16		47. 3
June 28	26. 8	26. 7	Jan. 31	43. 1	43. 2	Oct. 24	47. 2	47. 3
vano 20	1 20.0	20	0 00011. 01	10. 1	10. 2	Oct. 31	47.1	47.3
July 5	26. 7	26.7	Feb. 7	43.1	43. 2	000.01-111	1	
July 12		26. 7	Feb.14	43. 2	43. 3	Nov. 7	47. 2	47. 5
July 14	26. 9	26. 7	Feb. 22	43. 6	43. 4	Nov. 14	47.6	47.6
July 19	26. 6	26. 7	Feb. 28	43. 5	43. 4	Nov. 21		47.8
July 26	27. 0	26. 7	100.202	10.0	10, 1	Nov. 28	47. 8	47. 9
0 000			Mar. 7	43.6	43.5	1101. 20111	1	
Aug. 2	26. 7	26, 6	Mar. 14		43. 5	Dec. 5	48. 1	48. 0
Aug. 9	26. 4	26. 6	Mar. 21	43. 5	43. 5	Dec. 12		47. 2
Aug. 16	26. 5	26. 6	Mar. 28	43. 9	43. 5	Dec. 19	47.3	47. 2
				10.0	20.0	Dec. 26		47. 2
	į.	1	Ц	1			1	1 -1

HORIZONTAL INTENSITY

Absolute observations were made one day a week, a day's observations comprising two sets. Each set consisted of two sets of deflections at two distances between two sets of oscillations.

Abrupt changes of base-line value

4	Date	Hour	Amount	Cause
Apr. 8	1921	 13-15 10-12	γ +10 +4	Adjusted Z . Cleaned damping box.
Clarita 1		 15–19 15–16	$-6 \\ -124$	Adjusted Z . Adjusted H by torsion.
June 19 July 20	1922	 10-11 21-22	+16 +21	Cleaned damping box.
Oct. 2 Nov. 10		 8-9 17-18	+6 +21	Changed recording box. Cleaned damping box.

The horizontal intensity results with magnetometer No. 31 have been diminished by 20γ to reduce them to the international standard of the Department of Terrestrial Magnetism of the Carnegie Institution of Washington.

H base-line values at 20° C.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1921			1921			1922		
Jan. 3	$\frac{\gamma}{27660}$	27652	Sept. 6	$\frac{\gamma}{27553}$	γ 27545	Apr. 18	27556	$\frac{\gamma}{27553}$
Jan. 4	648	652	Sept. 7	549	545	11p1. 10	556	553
Jan. 11	656	652	Sept. 13	538	546	Apr. 25	. 563	553
Jan. 19	646	662	_	546	546	11,011 2011111	558	553
Jan. 24	664	662	Sept. 20	543	546			
				549	546	May 3 May 12	546	552
Feb. 2	662	664	Sept. 22 Sept. 27	539	547	May 12	554	552
	679	664	Sept. 27	557	547	May 16	551	551
Feb. 9	660	665	7.	542	547		548	551
	668	665				May 23	550	550
Feb. 16	653	666	Oct. 4	568	548		553	550
	672	666		549	548	May 30	556	550
Feb. 23	656	667	Oct. 11	548	549		558	550
	678	667	0.4.40	560	549	T	-10	7.10
M	005	000	Oct. 19		549	June 6	549	549
Mar. 2	665	668 668	0.4 00	555	549	T 10	537	549
Mar. 3	672		Oct. 26	545	550	June 13	547	548
Mar. 9	670	668	Oct 90	557	550	Turns 00	539	548
Mar. 11 Mar. 16	677 681	669 669	Oct. 28	547 527	550	June 20	558 566	564 564
MTMI. 10	660	669		527	550	June 27	566 562	563
Mar. 22	674	670	Nov. 1	549	551	Julie 21	559	563
Wai. 22	668	670	1407.1	555	551		009	505
Mar. 29	658	670	Nov. 8	547	551	July 5	563	562
Mar. 30	667	670	1101.0	548	551	July 0	575	562
		0.0	Nov. 15	554	552	July 11	556	561
Apr. 5	672	671	11011. 10	549	552	oury man	564	561
Lp1. 0	673	671	Nov. 22		553	July 22	578	582
Apr. 12	672	675		566	553		570	582
	673	675	Nov. 29	550	553	July 25		582
Apr. 19	680	675		549	553		573	582
	683	675						1
Apr. 26	673	675	Dec. 6	558	554	Aug. 2	566	583
	674	675		556	554		598	583
			Dec. 13	555	555	Aug. 22	569	583
May 3	664	676		556	555		587	583
	690	676	Dec. 20	553	555	Aug. 29	584	583
May 10	667	676		562	555		588	583
	670	676	Dec. 27	551	556	~		
May 18	676	676	1000	552	556	Sept. 7	583	584
3.5 0"	675	676	1922	571		C+ 10	588 589	584
May 25	675	676	Jan. 3	563	557	Sept. 13		584
May 31	659 686	676 676	Jan. 10	563	557 557	Sept. 19	580 592	584 584
way or	674	676	зап. 10	563	557	Sept. 26	588	584
	014	010	Jan. 17		557	Sept. 20	581	584
June 7	677	677	Vall. 11	553	557		001	304
	688	677	Jan. 24	562	557	Oct. 10	582	584
June 14	675	677	Jan. 25	554	557		584	584
	682	677	Jan. 25 Jan. 31	554	557	Oct. 16	578	578
June 28	668	677		555	557		592	578
	680	677				Oct, 24	558	570
		1	Feb. 7	544	556		571	570
July 5	683	676		563	556	Oct. 31	559	565
	678	676	Feb. 14	549	556		557	565
July 12	663	676		558	556			
July 14	670	676	Feb. 22	547	556	Nov. 7	573	575
July 19	679	676		551	556	1	579	575
T 1 00	669	676	Feb. 28	551	556	Nov. 14	595	586
July 26	677	676		545	556		589	586
	682	676	Mar. 7	558	555	Nov. 21	581	588
A O	057	670		557	555	NT 00	587	588
Aug. 2	657	670	Mar. 14	553	555	Nov. 28	581	589
Ang C	662	670	1	563	555		604	589
Aug. 9	677	670	Mar. 21	562	555	Dog #	586	590
A 110 16	685 662	670 670	l .	558	555	Dec. 5	592	590
Aug. 16	676	670	Mar. 28		555	Dec. 12	592	591
Aug. 23	657	669		559	555	100.12	600	591
	679	669	Apr. 4	547	554	Dec. 19	580	591
Aug. 30	666	669	Apr. 6		554	l .	595	591
	673	669	Apr. 11		554	Dec. 26	598	592
	1	000		553	554		593	592
			1	1 000) 001	1	1 000	1 002

VERTICAL INTENSITY

Absolute observations of dip were made with earth inductor No. 1 one day a week, a day's observations usually comprising two sets. The results have been diminished by 0'.9 to refer them to the Cheltenham standard.

In addition to the abrupt changes of base-line value due to adjustments or other causes, there was usually a more or less rapid drift in progress. Immediately following an adjustment there was frequently a rapid drift before the magnet reached a stable condition, as follows: 1921, July 7, 44γ increase in 24 hours; August 28, 24γ increase in 24 hours; November 30, 12γ decrease in 12 hours; 1922, February 27, 23γ decrease in 24 hours; March 19, 24γ increase in 24 hours; April 1, 13γ decrease in 24 hours; April 29, 15γ increase in 24 hours; October 7, 47γ decrease in 24 hours; November 27, 62γ decrease in 36 hours.

Abrupt changes of Z base-line value

Date	Hour	Amount	Cause
1001		,	
1921	10 17	1	
n. 1	16-17 10-11	-17	37
n. 10		-95	New pivots.
n. 17	13-15 8 9	+200	Adjusted.
n. 22		-10	Adjusted thermograph.
ne 30	11-12	-64	Scale value deflections.
dy 7	9-10	+219	Adjusted.
dy 11	11-12	+28	Scale value deflections.
ug. 4	16-17	-10	
ug. 28	0-1	+122	Adjusted.
pt. 1	15-16	+15	Do.
pt. 10	11-12	-26	Scale value deflections.
ov. 21	8-9	+30	
ov. 26	18-19	-58	New pivots.
ov. 30	15-16	+58	Scale value deflections.
ec. 9	11-12	+116	Do.
ec. 12	7-8	+64	Adjusted.
ec. 30	8 9	+8	
ec. 31	13-15	-100	Do.
1922			
n. 2	15-16	+23	Scale value deflections.
n. 29	8-9	+8	
eb. 27	13-14	-38	Do.
[ar. 19	8-9	+320	Adjusted.
[ar. 31	14-15	+36	Scale value deflections.
pr. 1	16-17	-162	Adjusted.
pr. 29	13-14	+16	Scale value deflections.
lay 29	14-15	+10	Do.
ine 9	14-15	+8	Do.
ıly 20		-50	Adjusted.
ug. 17		-68	Do.
ct. 7	17-18	-40	
ov. 17	22-23	+334	Do.
ov. 27	11-12	-70	Scale value deflections.

Z base-line values at 20° C.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
						1922		
1921	$\frac{\gamma}{35048}$	γ 35050	1921 Sept. 21	$\frac{\gamma}{34746}$	γ 34758 759	May 17	$\frac{\gamma}{34872}$	γ 34868
Jan. 3 Jan. 11	34363	34363	Sep., 21	757	758	1414y 11	880	868
Jan. 19	570	563	Sept. 28	758	758 750	May 24	875	877
Jan. 24	540	539	~~~	756	749		891	877
		1				May 31	893	893
Feb. 3	528	533	Oct. 5	738	733 732		894	893
	533	533	0-4-10	748	732	Term a #	886	886
Feb. 10	525 524	530 530	Oct. 13	706 722	717 717	June 7	882	886
Feb. 17	524 521	526	Oct. 20	717	710	June 14	891	895
Feb. 11	522	526	000. 20	705	710	vano iii	. 896	895
Feb. 24	522	523	Oct. 27	696	703	June 21	884	894
	523	523		697	703		903	894
				200	00=	June 28	882	894
Mar. 2 Mar. 3	515	520	Nov. 2	698	697		891	894
Mar. 3	517 522	519 516	Nov. 9	695 697	697 690	July 6	893	902
Mar. 9 Mar. 11	508	515	1107. 9	696	690	July 0	904	902
Mar. 17	511	512	Nov. 16	678	682	July 12		908
14101. 1	516	512		683	681		913	908
Mar. 23	511	509	Nov. 23 Nov. 24	733	702	July 21	861	860
	517	509	Nov. 24	697	702		866	860
Mar. 30	508	506	Nov. 30	589	595	July 26	858	862
Mar. 31	516	506	D 0	626	696		885	862
1 C	506	504	Dec. 2 Dec. 7	636 629	636 634	Aug. 3	870	866
Apr. 6	511	504	Dec. 1	630	634	Aug. o	866	866
Apr. 13		501	Dec. 14		813	Aug. 22	779	782
Apr. 10	506	501		815	814		782	782
Apr. 20	494	499	Dec. 21	820	823 823	Aug. 30	773	779
	498	499		814	823		774	779
Apr. 27	488	497	Dec. 28	821	830	Cont 7	774	776
	500	497	Dec. 29	844	831	Sept. 7	773	776
May 4	493	494	1922			Sept. 20		760
May 4	501	494	Jan. 5	773	762	Sopt. 202222	751	760
May 11		492	Jan. Ozzzzz	806	762	Sept. 27	747	760
112113 11111111	494	492	Jan. 11	749	759	-	760	760
May 19	483	489	Jan. 14	756	758			
	485	489	Jan. 18	749	756	Oct. 4	777 765	760 760
May 26	486 485	487 487	Jan. 26	754 749	756 752	Oct. 11		654
	400	401	Jan. 20	763	752	000. 11	644	654
June 3	485	485		,,,,	1	Oct. 19	651	652
• • • • • • • • • • • • • • • • • • • •	487	485	Feb. 1	744	758	1	672	652
June 9	483	483		765	758	Oct. 26	654	649
	486	483	Feb. 8	757	757		662	649
June 29	469	474	Theb 15	755	757	Nov. 1	629	631
	473	474	Feb. 15	753 745	755 755	1NOV. 1	636	628
July 6	417	425	Feb. 21		753	Nov. 8	568	581
. July 0	420	425	Feb. 23	752	753		576	581
July 13	717	720				Nov. 15	570	577
	724	720	Mar. 1	. 686	686		571	577
July 20	725	727 727		678	684	Nov. 22	. 903	909
- · · · ·	727	727	Mar. 8	642	643	Nov. 24	908 907	909 911
July 27	739	742 742	Mar. 15	642 594	642 601	NOV. 24	911	911
	746	142	Mar. 15	601	600	Nov. 25		912
Aug. 3	727	737	Mar. 22		938	1107. 20222	918	912
Aug. 4		712		933	939	H	916	912
Aug. 10	637	679	Mar. 30	972	964	Nov. 27	835	838
	593	679	1	976	965	NT 000	817	834
Aug. 17	. 555	663		014	010	Nov. 29	762	781
A 23 07 04	601	662	Apr. 5	814 822	818 817		828	183
Aug. 24	. 589 570	645 645	Apr. 12		806	Dec. 6	767	760
Aug. 31		790	Apr. 12	805	806	1	765	760
****** OT	1 .52	}	Apr. 20	834	837	Dec. 14	741	73
Sept. 1	. 793	793		845	837	11	743	736
Sept. 8	820	815	Apr. 27	825	830	Dec. 20	- 723	72
_	821	815	11	826	830	Dec. 27	741	724 699
	. 786	784	11	1	i	Dec. 27	_ 692	1 093
Sept. 14	781	783	May 4	855	858	11	690	698

DIURNAL VARIATION

TEN SELECTED QUIET DAYS

The following tables present the diurnal variation of declination (D), horizontal intensity (H), vertical intensity (Z), north component (X), east component (Y), dip (I) and total intensity (F) for each month, based on the hourly means for the 10 least disturbed days. The tabular quantities refer approximately to the middle of the hour, sixtieth meridian mean time, since they are based on the average ordinate for the hour. A plus sign indicates an hourly value greater than the mean for the day. D and Y, since they are considered positive for east declination, are negative at Porto Rico. Consequently, in the tables showing the diurnal variation of D and Y, a plus sign indicates an hourly value numerically less but algebraically greater than the mean for the day. The variations in X, Y, I, and F were computed from the variations in D, H, and F by means of the formulas:

 $\Delta X = 0.541 \Delta D + 0.998 \Delta H$ $\Delta Y = 8.067 \Delta D - 0.067 \Delta H$ $\Delta I = 0.048 \Delta Z - 0.060 \Delta H$ $\Delta F = 0.782 \Delta Z + 0.624 \Delta H$

Mean results are also given for groups of four months, as indicated by the roman numerals at the head of the columns: I, January, February, November, December; II, March, April, September, October; III, May, June, July, August.

No correction for noncyclic change has been applied, but an effort has been made, when selecting the 10 days, to keep the effect small by avoiding days of marked noncyclic change such as usually occur

immediately after a severe magnetic disturbance.

An idea of the amount of noncyclic change on the 10 selected quiet days may be obtained from the following table. Of each pair of values the former is derived from a comparison of the last hour of the selected days with the last hour of the preceding days, while the latter is derived from a comparison of the first hour of the selected days with the first hour of the following days. A plus sign indicates that the later value was greater than the earlier.

Amount of noncyclic change [Ten selected quiet days]

D.C	1921					1922						
Month	D		н		z		D		н		z	
January February March April	+0.02 03 +.18 02	-0.02 02 +.01 +.05	$ \begin{array}{c} \gamma \\ +3.1 \\ +1.5 \\ +4.8 \\ +3.4 \end{array} $	$ \begin{array}{c} $	$ \begin{array}{c} \gamma \\ +0.1 \\ .0 \\ -1.4 \\ -1.6 \end{array} $	$\begin{pmatrix} \gamma \\ +0.2 \\1 \\ -3.0 \\ -1.9 \end{pmatrix}$	+0.04 +.02 01 09	+0.01 07 +.03 12	7 +1.6 +4.9 +8.7 +1.8	$\begin{array}{c} \gamma \\ +2.6 \\ +4.5 \\ +7.6 \\4 \end{array}$	$ \begin{array}{c} \gamma \\ -1.5 \\ .0 \\ -1.0 \\ 3 \end{array} $	$ \begin{array}{c} \gamma \\ -1.8 \\ 2 \\ 9 \\ 2 \end{array} $
May June July August	+. 14 +. 18 +. 02 +. 15	+. 14 +. 01 13 +. 19	$\begin{array}{c} +2.7 \\ +3.7 \\ +1.6 \\ +.2 \end{array}$	+1.9 $+3.4$ $+.5$ $+1.1$	-1.4 7 -1.3 2	$ \begin{array}{r r} -1.2 \\4 \\ -1.0 \\ +.9 \end{array} $	+. 04 +. 10 05 +. 06	03 +. 01 06 +. 13	+2. 5 +2. 5 +2. 0 +. 6	$ \begin{array}{r} +2.4 \\ +2.3 \\ +1.0 \\ -1.3 \end{array} $	+.4 .0 1 +.9	+.5 .0 7 +.1
September October November December	+. 05 05 +. 02 +. 10	02 04 +. 15 +. 02	+4.3 +2.6 +3.6 6	+4.2 +1.7 +4.0 +.4	-1.0 +1.3 5 -1.0	$ \begin{array}{c c} -1.5 \\ +.5 \\ +.4 \\ .0 \end{array} $	02 03 +.02 06	04 01 +.06 04	+2. 4 +3. 1 +2. 6 +2. 6	+.8 +1.4 +2.3 +2.5	-1.9 -1.0 -1.7 +.7	$ \begin{array}{r} -1.9 \\ -1.4 \\ -1.3 \\ +.9 \end{array} $

FIVE INTERNATIONAL QUIET DAYS

There are given also tables showing the diurnal variation of D, H, X, Y and Z for the five international quiet days of each month, arranged according to Greenwich mean time, the tabular quantities referring to the middle of the hour, for the reason stated above.

The results have been corrected for noncyclic change, as in previous years, on the assumption that the change is distributed uniformly through the 24 hours. Twenty-six hourly means were computed, as shown on the bottom line of each monthly tabulation, the computations being carried one decimal place further than there shown. The mean of the two differences between overlapping hours was taken as the amount of noncyclic change in 24 hours. These amounts are shown in the following table. A plus sign indicates that the value at the end of the day was greater than the one at the beginning.

Amount of noncyclic change
[Five international quiet days]

			19	21				19	22	-	
Month		D	ı	Ħ	Z		D		H	Z	
January February March April June July August September October November December	+0.02 +0.06 +0.06 +1.16 +1.10 -0.05 -1.18 -1.14 +0.04 +0.02 00	+0.04 +.02 +.02 +.12 +.12 +.30 05 16 +.02 +.18 .00 +.02 06	γ +3.0 +8.8 +6.8 +6.6 +7.0 +4.4 +4.0 +2.6 +3.2	7 +5. 4 +8. 8 +7. 8 +3. 4 +7. 4 +8. 0 +7. 8 +3. 0 +3. 2 +4. 0 +3. 2	$ \begin{array}{c} \gamma \\ -0.6 \\ -2.6 \\ +1.8 \\ -4.0 \\ \end{array} $ $ \begin{array}{c} +1.0 \\ -2.2 \\ -2.8 \\ -3.4 \\ \end{array} $ $ \begin{array}{c} -8 \\ -2.0 \\ +1.0 \\ -2.6 \\ \end{array} $	+0.02 -10 +13 +.08 -00 +.08 -14 22 +.04 -02 06 +.04	, +0.06 +.06 +.08 +.06 02 +.10 12 20 10 +.14 +.02	7 +3.6 +9.8 +3.0 +6.4 +3.4 +5.0 +1.2 +.2 +2.0 +2.6 +2.0	γ +3. 2 +6. 8 +4. 7 +5. 8 +5. 6 +1. 8 +. 2 +2. 2 +2. 2 +2. 8 +3. 2	$ \begin{array}{c} \gamma \\ -3.6 \\2 \\ +2.2 \\ +.4 \\6 \\ -1.8 \\ +.6 \\ +2.6 \\ -2.2 \\ -3.8 \\ +2.8 \end{array} $	$\begin{array}{c} \gamma \\ -3.6 \\ -8.8 \\ +1.6 \\6 \end{array}$ $\begin{array}{c} -1.4 \\ -2.5 \\ +1.4 \\ +1.4 \end{array}$ $\begin{array}{c} -1.8 \\ -3.4 \\ +3.2 \end{array}$

Diurnal variation of D

[Ten selected quiet days, uncorrected for noncyclic change. Sixtieth meridian civil time]

1921

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
	1	(I	Ί		I	п		1	I	:		r	11	ш	
1 2 34	, -0.4 6 7 5	5	1 .0	+.1 +.1	+.1	2	+.0	+.1	+.1	2	2 3	2 6	35 52	05 02	一. 02 十. 05	17
5 6 7 8	3 .0 +.3 +.7	$2 \\ +.1$	+. 2	$\begin{array}{c} +.3 \\ +.5 \\ +1.0 \\ +2.2 \end{array}$	+. 5 +. 8 +1. 8 +3. 2	+. 2 +. 7 +1. 8 +2. 9	+. 5 +. 9 +1. 9 +3. 1	+. 7 +1. 1 +2. 5 +3. 9	1 +.8	+.3	. 0	4 3	+.02	$+.45 \\ +.90$	+.88 +2.00	+. 12 +. 39 +. 98 +1. 78
10	$+2.9 \\ +1.8$	$+2.0 \\ +2.2$	$+1.8 \\ +1.9$	+3.1	+2.4 +1.1	+2.1 +1.1	+2. 2 +. 9	+1.5	+2.2 +1.0	$+2.1 \\ +1.3$	+1.8 +1.6	+2.1	+1. 35 +2. 20 +2. 00 +. 92	+2.30 +1.65	+2.05 +.78	
13	-1.5 -1.7 -1.5 9	8 -1.2	-1.0 -1.8	$-2.4 \\ -3.0$	-2.1 -2.6	9 -1. 4	-1.6 -2.1	$ \begin{array}{c c} -2.2 \\ -2.1 \end{array} $	-2.1 -2.1	-1.2 -1.7	7	-1.6	92 -1.38	-1.68 -2.15	-1.70 -2.05	62 -1. 43 -1. 86 -1. 73
17	4 1 1 +.1	5 2	9 5	-1.9 -1.2 6 5	-1.2	-1.1 -1.0	-1.3 9	9 7	9	-1.0 4	7 1	5 . 0	45 10	-1.00	-1.12 85	-1.32 86 50 31
21 22 23 24	+. 2 +. 4 +. 2 . 0	+. 2 +. 2	.0	2 1	5 2	6	7 5 3 1	4 2	4 4	.0	+. 2 +. 1	+. 3 +. 2	+. 28 +. 18	12 12	58	09

1	$\begin{array}{c ccccc} 0.0 & -0.1 & 0.0 & -0.1 \\1 &1 & .0 &2 \\2 &1 & +.2 &2 \\3 &4 & +.3 &1 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{vmatrix} -0.2 & -0.1 & -0.1 \\2 &2 &2 \\2 &2 &2 \\1 &2 &2 & \end{vmatrix} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix} + & 2 & 0 & 0 \\ + & 6 & 0 & + 2 \end{vmatrix} + .$	02 + 50 + 72 + 42 08 + 1.02 + 1.78 + 96
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 6 $+$ 2. 2 $+$ 1. 8 $+$ 2. 5 $+$ 5 $+$ 2. 1 $+$ 2. 0 $+$ 1. 8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix} +1.7 & +1.8 & +1.4 & +1. \\ +1.0 & +1.5 & +1.2 & +1. \end{vmatrix}$	45 + 1.90 + 2.25 + 1.87 35 + 1.32 + 1.12 + 1.27
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix}6 & -1.1 & -1.1 & -1. \\8 & -1.5 & -1.4 & -1. \end{vmatrix}$	95 -1.15 -1.72 -1.28 30 -1.78 -2.10 -1.72
18 4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix}9 &5 & .0 & \\6 &1 & +.1 & \end{vmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
21	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix}6 &5 &6 & +.1 \\5 &4 &4 & +.2 \\4 &1 &3 &1 \\3 & -1 & .0 & .0 \end{bmatrix}$	$\begin{vmatrix}2 & +.3 & +.2 & +. \\1 & +.2 & +.2 & +. \end{vmatrix}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

$Diurnal\ variation\ of\ H$

[Ten selected quiet days, uncorrected for noncyclic change. Sixtleth meridian civil time]

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
11001	1	1	I	L		11	1		I	[I		I	п	ш	Toai
1 2 3 4	$ \begin{array}{c} \gamma \\ -6 \\ -6 \\ -3 \\ -2 \end{array} $	$ \begin{array}{c} \gamma \\ -4 \\ -4 \\ -3 \\ -1 \end{array} $	$ \begin{array}{c} $	$ \begin{array}{c} $	γ -4 -4 -4 -4	$ \begin{array}{c} \gamma \\ -5 \\ -3 \\ -2 \\ -1 \end{array} $	γ -3 -3 -3 -4	$ \begin{array}{c} \gamma \\ -4 \\ -4 \\ -4 \\ -4 \end{array} $	$egin{array}{c} \gamma & -1 \ -2 \ -2 \ -1 \end{array}$	$ \begin{array}{c} \gamma \\ -5 \\ -3 \\ -2 \end{array} $	$ \begin{array}{c} \gamma \\ -7 \\ -6 \\ -4 \\ -3 \end{array} $	$ \begin{array}{c} \gamma \\ -2 \\ -1 \\ -0 \\ +1 \end{array} $	$\begin{pmatrix} \gamma \\ -4.8 \\ -4.2 \\ -2.5 \\ -1.2 \end{pmatrix}$	$ \begin{array}{c c} \gamma \\ -5.0 \\ -4.8 \\ -4.0 \\ -2.2 \end{array} $	$ \begin{array}{c c} $	$\begin{pmatrix} \gamma \\ -4.6 \\ -4.2 \\ -3.2 \\ -2.2 \end{pmatrix}$
5 6 7 8	$-1 \\ 0 \\ +1 \\ +4$	$^{0}_{+3}^{+3}$	$ \begin{array}{r} -4 \\ -2 \\ -1 \\ +2 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ +1 \end{array} $	$ \begin{array}{r} -3 \\ -3 \\ -2 \\ 0 \end{array} $	0 0 0 -1	-3 -3 -1 -1	$ \begin{array}{r} -3 \\ -3 \\ -2 \\ 0 \end{array} $	$^{+1}_{+2}_{+1}_{-2}$	$^{-1}_{\begin{subarray}{c}0\\0\\+2\end{subarray}}$	$ \begin{array}{c} -1 \\ +1 \\ +3 \\ +6 \end{array} $	+2 +3 +4 +7	$\begin{vmatrix} .0 \\ +1.2 \\ +2.8 \\ +5.8 \end{vmatrix}$	-1.5 5 2 +.8	$ \begin{array}{c c} -2.2 \\ -2.2 \\ -1.2 \\5 \end{array} $	-1. 2 5 +. 4 +2. 0
9 10 11 12	+6 +6 +7 +8	+10 +9 +8 +6	+5 +8 +10 +13	+3 +5 +8 +9	+1 +3 +5 +7	0 +2 +5 +6	$^{+2}_{+6}$ $^{+11}_{+13}$	$^{+4}_{+14}$ $^{+22}_{+20}$	$^{-4}_{-2}$ $^{0}_{+2}$	+5 +7 +8 +9	+8 +8 +7 +6	+5 +3 -1 -3	+7. 2 +6. 5 +5. 2 +4. 2	$\begin{vmatrix} +2.2 \\ +4.5 \\ +6.5 \\ +8.2 \end{vmatrix}$	+1.8 $+6.2$ $+10.8$ -11.5	+3.8 +5.8 +7.8 +8.0
13 14 15 16	$^{+5}_{+2}_{-1}_{-2}$	+5 +2 -2 -4	$^{+12}_{+9}_{+5}$	+8 +7 +5 +3	+8 +7 +6 +4	+6 +5 +4 -1	+11 +6 +1 -3	+15 +6 -3 -8	+3 +1 -1 -4	$^{+9}_{+4}$ $^{0}_{-5}$	$^{+3}_{0}_{-2}_{-4}$	-4 -5 -4 -3	+2. 2 2 -2. 2 -3. 2	+8.0 +5.2 +2.2 -1.5	+10.0 $+6.0$ $+2.0$ -2.0	+6.8 +3.7 +.7 -2.5
17 18 19 20	$-1 \\ 0 \\ -1 \\ -3$	-5 -4 -4 -4	-4 -5 -5 -5	-1 -3 -3 -3	${ 0 \atop -2 \atop -3 \atop -3 \atop -3 \atop }$	$ \begin{array}{r} -4 \\ -4 \\ -2 \\ 0 \end{array} $	$ \begin{array}{r} -6 \\ -6 \\ -4 \\ -2 \end{array} $	-10 -8 -5 -4	$ \begin{array}{r} -5 \\ -1 \\ +1 \\ +1 \end{array} $	$ \begin{array}{r} -6 \\ -3 \\ -2 \\ -2 \end{array} $	-4 -3 -2 -1	$^{-2}_{\begin{subarray}{c}0\+2\+2\end{subarray}}$	-3.0 -1.8 -1.2 -1.5	$ \begin{array}{r rrrr} -4.0 \\ -3.0 \\ -2.2 \\ -2.2 \end{array} $	-5. 0 -5. 0 -3. 5 -2. 2	$\begin{vmatrix} -4.0 \\ -3.2 \\ -2.3 \\ -2.0 \end{vmatrix}$
21 22 23 24	-3 -4 -3 -3	-4 -5 -4 -2	-4 -4 -3 -3	-4 -4 -4 -3	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ -1 \end{array} $	$\begin{array}{c} 0 \\ -1 \\ -2 \\ -1 \end{array}$	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	-5 -5 -5 -4	+2 +2 +4 +4	-2 -3 -3 -3	$ \begin{array}{c} -1 \\ 0 \\ -1 \\ -3 \end{array} $	$^{+1}_{0}_{-2}_{-3}$	-1.8 -2.2 -2.5 -2.8	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-2. 2 -2. 5 -2. 5 -2. 0	-2.0 -2.3 -2.3 -2.3
							19	922								
1	-4	-9	-10	-4	-3	0	0	+2	-2	-2	-4	-3	-5, 0	_4 5	-0.2	-3

1 2	-4 -2 -2 -1	-9 -9 -7 -6	-10 -10 -10 -8	-4 -5 -4 -3	$ \begin{array}{r} -3 \\ -2 \\ -2 \\ 0 \end{array} $	0 0 -1 -1	0 0 -1 -1	$^{+2}_{0}_{+2}$	$ \begin{array}{c} -2 \\ -2 \\ 0 \\ 0 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ -1 \end{array} $	-4 -3 -2 -1	-3 -3 -2 -2	-5.0 -4.5 -3.0 -2.5	-4.5 -4.8 -3.8 -3.0	5 5	-2.4
5 6 7 8	$^{+1}_{+2}_{+4}_{+8}$	$ \begin{array}{r} -5 \\ -4 \\ -1 \\ +4 \end{array} $	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -1 \end{array} $	$-1 \\ 0 \\ +1 \\ +3$	0 0 0 -1	$ \begin{array}{r} -1 \\ -2 \\ -2 \\ -2 \end{array} $	-2 -2 -1 -1	$ \begin{array}{r} -1 \\ -2 \\ -1 \\ +1 \end{array} $	0 -2 -3	$^{+1}_{+2}_{+2}_{+1}$	$^{+1}_{+2}_{+3}_{+6}$	$-1 \\ 0 \\ +2 \\ +5$	-1.0 .0 +2.0 +5.8	-1.5 8 8	-1.0 -1.5 -1.0 -1.8	8 +.1
9 10 11 12	+9 +6 +4 +3	+9 +12 +13 +12	+4 +9 +13 +15	+6 +7 +10 +12	0 +3 +5 +6	$-1 \\ -1 \\ +3 \\ +5$	$^{0}_{+4}$ $^{+6}$ $^{+7}$	+7 +12 +14 +11	-3 -2 +2 +6	$^{+1}_{0}_{+2}$	+7 +6 +6 +4	+7 +6 +5 +4	+8.0 +7.5 +7.0 +5.8	$ \begin{array}{r} +2.0 \\ +3.5 \\ +6.8 \\ +9.2 \end{array} $	$+1.5 \\ +4.5 \\ +7.0 \\ +7.2$	$+5.2 \\ +6.9$
13	$0 \\ -3 \\ -4 \\ -2$	+11 +6 +1 -3	$^{+15}_{+11}_{+6}$	$^{+9}_{+6}$ $^{+2}$ $^{-2}$	+6 +5 +4 +2	+5 +4 +3 0	+6 +3 +3 -1	+5 -1 -6 -11	+6 +3 -1 -4	$^{+4}_{+2}_{-2}_{-5}$	$+1 \\ -1 \\ -4 \\ -5$	+3 -1 -3 -2	+3.8 +.2 -2.5 -3.0	+8.5 +5.5 +1.2 -2.8	$ \begin{array}{c c} +5.5 \\ +2.8 \\ +1.0 \\ -2.5 \end{array} $	1 +2.8
17	$\begin{array}{c} 0 \\ 0 \\ -1 \\ -2 \end{array}$	-5 -4 -2 -2	-6 -4 -3 -1	-6 -7 -5 -4	-2 -3 -4 -4	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ 0 \end{array} $	-5 -6 -5 -2	-11 -9 -6 -4	$ \begin{array}{r} -4 \\ -2 \\ +1 \\ +1 \end{array} $	$ \begin{array}{c} -4 \\ -2 \\ 0 \\ 0 \end{array} $	-4 -3 -2 -1	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	-2.8 -2.2 -1.8 -1.8	-5.0 -3.8 -1.8 -1.0	-5.0 -4.0	$ \begin{array}{r r} -3.7 \\ -2.5 \end{array} $
21 22 23 24	$ \begin{array}{r} -2 \\ -4 \\ -4 \\ -3 \end{array} $	-2 -3 -4 -5	-1 -2 -1 -2	-4 -4 -4 -5	-3 -4 -3 -1	0 -1 -1 +1	$ \begin{array}{r} -5 \\ -6 \\ -5 \\ -2 \end{array} $ $ \begin{array}{r} -2 \\ -1 \\ 0 \\ +1 \end{array} $	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ +2 \end{array} $	+2 +2 +1 -1	0 0 +1 0	-1 -2 -1 -2	-2 -2 -2 -2	-1.8 -2.8 -2.8 -3.0	8 -1.0 8 -2.0	-2.0 -2.0 -1.2 +.8	$\begin{array}{c c} -1.5 \\ -1.9 \\ -1.6 \\ -1.4 \end{array}$

Diurnal variation of Z

[Ten selected quiet days uncorrected for noncyclic change. Sixtieth meridian civil time]

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
	I		11	ı		п	[11		I		I	п	ш	
1 2 34	γ +5 +6 +7 +7	γ +3 +2 +3 +4	γ +5 +5 +6 +6	γ +3 +4 +4 +4	γ 0 0 0 0	$^{\gamma}_{ egin{smallmatrix} +1\ +2\ +2\ 0\ \end{bmatrix}}$	γ +3 +3 +3 +3	γ +2 +3 +3 +3	γ +4 +4 +5 +5	$ \begin{array}{c} \gamma \\ +2 \\ +2 \\ +3 \\ +4 \end{array} $	$\gamma \\ +1 \\ +1 \\ +2 \\ +2 \\ +2$	$^{\gamma}_{+3}^{+3}_{+2}^{+3}_{+4}$	$\gamma \\ +3.0 \\ +2.8 \\ +3.8 \\ +4.2$	$ \begin{array}{c} \gamma \\ +3.5 \\ +3.5 \\ +4.5 \\ +4.8 \end{array} $	$\begin{pmatrix} \gamma \\ +1.5 \\ +2.0 \\ +2.0 \\ +1.5 \end{pmatrix}$	$\begin{pmatrix} \gamma \\ +2.7 \\ +2.8 \\ +3.4 \\ +3.5 \end{pmatrix}$
5	+5 +4 +4 +3	$^{+4}_{+6}_{+6}$	+6 +6 +4 +1	$^{+3}_{+3}_{+2}_{-1}$	$\begin{array}{c} 0 \\ +1 \\ +1 \\ -1 \end{array}$	$ \begin{array}{r} -1 \\ -1 \\ -3 \\ -6 \end{array} $	$^{+3}_{+2}_{+1}_{-1}$	$^{+2}_{+2}_{+1}_{-4}$	$^{+5}_{+5}_{+2}_{-3}$	$^{+4}_{+4}_{+3}_{-1}$	$^{+2}_{+3}_{+3}_{+1}$	$^{+3}_{+2}_{+3}_{+2}$	$+3.5 \\ +3.8 \\ +4.0 \\ +3.0$		-3.0	$\begin{vmatrix} +3.1 \\ +2.2 \end{vmatrix}$
9 10 11	$ \begin{array}{r} -1 \\ -6 \\ -8 \\ -8 \end{array} $	+2 -1 -5 -8	-3 -5 -8 -9	-4 -6 -7 -6	$ \begin{array}{r} -3 \\ -3 \\ -1 \\ +1 \end{array} $	$ \begin{array}{r} -7 \\ -5 \\ -2 \\ 0 \end{array} $	-5 -5 -3 -3	-7 -5 -4 -3	-5 -7 -7 -7	$ \begin{array}{r} -5 \\ -6 \\ -5 \\ -4 \end{array} $	$ \begin{array}{r} -2 \\ -4 \\ -6 \\ -6 \end{array} $	$ \begin{array}{r} 0 \\ -2 \\ -5 \\ -5 \end{array} $	$ \begin{array}{c c}2 \\ -3.2 \\ -6.0 \\ -6.8 \end{array} $			-3.3 -4.6 -5.1 -4.8
3	-7 -7 -6 -6	-10 -11 -10 -8	-10 -8 -4 -3	$ \begin{array}{r} -4 \\ -1 \\ +1 \\ +2 \end{array} $	$^{+1}_{+3}_{+4}_{+3}$	+4 +4 +5 +5	$ \begin{array}{r} -2 \\ -4 \\ -2 \\ 0 \end{array} $	$-3 \\ -1 \\ 0 \\ 0$	$ \begin{array}{r} -5 \\ -3 \\ -2 \\ -2 \end{array} $	-4 -4 -4 -4	-6 -5 -3 -1	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -2 \end{array} $	-7. 2 -7. 0 -5. 8 -4. 2		$\begin{vmatrix} .0 \\ +.5 \\ +1.8 \\ +2.0 \end{vmatrix}$	-4. 3 -3. 5 -2. 1 -1. 3
17 18 19	$ \begin{array}{r} -4 \\ -3 \\ -1 \\ +2 \end{array} $	$ \begin{array}{r} -6 \\ -2 \\ +2 \\ +4 \end{array} $	$^{-2}_{\begin{subarray}{c}0\+2\+2\end{subarray}}$	$^{+1}_{0}_{-1}$	$^{+1}_{-1}_{-1}_{-2}$	$^{+2}_{+1}_{0}_{-1}$	$^{0}_{+1}_{+2}_{+1}$	$\begin{array}{c} 0 \\ +1 \\ +1 \\ +1 \\ +1 \end{array}$	$^{0}_{\substack{+1 \ +2 \ +1}}$	$^{-1}_{+1}_{+2}_{+2}$	$^{0}_{+2}^{+2}_{+3}$	$0 \\ 0 \\ -1 \\ 0$	$ \begin{array}{r} -2.5 \\8 \\ +.5 \\ +2.2 \end{array} $			1
21 22 23 23 24	+3 +3 +4 +5	+4 +5 +5 +5	$^{+3}_{+2}_{+2}$	$0 \\ +1 \\ +1 \\ +1 \\ +1$	$-1 \\ 0 \\ 0 \\ -1$	0 0 0 0	$^{+1}_{+1}_{+1}_{0}$	$^{+1}_{+2}_{+2}_{+3}$	$^{+2}_{+2}_{+2}$	+2 +3 +3 +3	+3 +3 +3 +2	$^{+2}_{+2}_{+2}$	+3. 0 +3. 2 +3. 5 +3. 5	$\begin{vmatrix} +1.8 \\ +2.0 \\ +2.0 \\ +2.0 \end{vmatrix}$	+.2 +.8 +.8 +.5	$\begin{vmatrix} +1.7 \\ +2.0 \\ +2.1 \\ +2.0 \end{vmatrix}$
	· · · · · · ·						19	922		· · · · · · · · · · · · · · · · · · ·	•					<u> </u>
1 2 3 4	+4 +5 +4 +5	+2 +4 +4 +5	+4 +4 +5 +6	$+3 \\ +3 \\ +2 \\ +2$	+1 0 0 0	-3 -2 -2 -1	-1 -1 -1 +1	$^{0}_{+1}^{+1}_{+1}$	+3 +4 +4 +4	+2 +3 +4 +4	+3 +3 +3 +3	$^{+1}_{+1}_{+2}_{+3}$	+2.5 +3.2 +3.2 +4.0	+3. 0 +3. 5 +3. 8 +4. 0	-0.8 5 5	$\begin{array}{c c} +2.1 \\ +2.2 \end{array}$
5 6 78	+5 +5 +5 +5		+5 +4 +4 +1	$^{+2}_{+2}_{+1}$	$-1 \\ 0 \\ +1 \\ 0$	$0 \\ 0 \\ 0 \\ -2$	$^{+2}_{+3}_{+2}$	$-1 \\ 0 \\ -2 \\ -5$	$^{+4}_{+5}_{+3}_{-1}$	$^{+5}_{+4}$ $^{+4}_{0}$	$^{+3}_{+4}_{+4}$	+5 +5 +5 +4	+4. 2 +4. 5 +4. 5 +3. 5	+4.0 +3.8 +3.0	+.8 +.2 -1.8	+2
9 10 11	$^{+2}_{-2}$ $^{-6}_{-9}$	$ \begin{array}{r} -2 \\ -4 \\ -6 \\ -6 \end{array} $	$ \begin{array}{r} -2 \\ -5 \\ -6 \\ -7 \end{array} $	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ -2 \end{array} $	+1 +1 +1 +1	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ +1 \end{array} $	-3 -2 -3 -4	-6 -4 -3 -3	-3 -4 -4 -4	-4 -4 -4 -3	$ \begin{array}{r} -1 \\ -3 \\ -5 \\ -4 \end{array} $	0 -4 -8 -9	2 -3. 2 -6. 2 -7. 0	-2.8 -3.5 -3.8 -4.0	$\begin{array}{c c} -2.8 \\ -1.8 \\ -1.5 \\ -1.5 \end{array}$	$ \begin{array}{c c} -1.9 \\ -2. \\ -3.8 \\ -4.1 \end{array} $
13 14 15 16	$ \begin{array}{r r} -11 \\ -10 \\ -7 \\ -4 \end{array} $	$\begin{vmatrix} -6 \\ -7 \\ -7 \\ -5 \end{vmatrix}$	-9 -8 -6 -4	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ -1 \end{array} $	$\begin{bmatrix} -1 \\ -2 \\ -2 \\ 0 \end{bmatrix}$	+1 +3 +4 +4	$-2 \\ -1 \\ 0 \\ +2$	$-1 \\ +2 \\ +4 \\ +4$	$ \begin{array}{r} -4 \\ -3 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -3 \\ -4 \\ -5 \\ -5 \end{array} $	-5 -4 -4 -3	-10 -9 -6 -3	$ \begin{array}{c c} -8.0 \\ -7.5 \\ -6.0 \\ -3.8 \end{array} $	-4.8 -4.2 -3.8 -3.0	$ \begin{array}{c c}8 \\ +.5 \\ +1.5 \\ +2.5 \end{array} $	$ \begin{array}{c c} -4.5 \\ -3.5 \\ -2.5 \\ -1.4 \end{array} $
17 18 19 20	$egin{array}{c} -2 \\ 0 \\ +1 \\ +2 \end{array}$	$ \begin{array}{c c} -2 \\ +1 \\ +3 \\ +3 \end{array} $	$\begin{vmatrix} -1 \\ +1 \\ +2 \\ +2 \end{vmatrix}$			$^{+4}_{+2}_{+2}$	$^{+2}_{+2}_{+2}$	+5 +4 +2 +1	$-2 \\ +1 \\ +1 \\ +1$	$ \begin{array}{c c} -2 \\ 0 \\ +2 \\ +1 \end{array} $	$-1 \\ 0 \\ 0 \\ 0$	$+1 \\ +2 \\ +3 \\ +4$	$ \begin{array}{c c} -1.0 \\ +1.8 \\ +1.8 \\ +2.2 \end{array} $	-1.5 .(+.8 +1.0		
21 22 23 24	+3 +3 +3 +3	$\begin{vmatrix} +3 \\ +2 \\ +2 \\ +2 \end{vmatrix}$	$\begin{array}{c c} +2 \\ +2 \\ +3 \\ +3 \end{array}$	$\begin{array}{c c} & 0 \\ 0 \\ +1 \\ +2 \end{array}$	$\begin{array}{c} 0 \\ +1 \\ +1 \\ +2 \end{array}$	$\begin{array}{c} 0 \\ -1 \\ -2 \\ -2 \end{array}$	$^{+2}_{+1}_{-1}_{-2}$	$^{+1}_{0}_{0}$	+1	$\begin{array}{c c} +2 \\ +1 \\ +1 \\ +1 \\ +1 \end{array}$	$\begin{array}{c c} +1 & 0 \\ +1 & +2 \end{array}$	$\begin{array}{ c c c c } +4 \\ +4 \\ +3 \\ +2 \end{array}$	$\begin{array}{c c} +2.8 \\ +2.2 \\ +2.2 \\ +2.2 \end{array}$	+1.2 +1.6 +1.5 +1.5	+.8 +.3 3	+1.6 +1.5 +1.5

Diurnal variation of X

[Ten selected quiet days uncorrected for noncyclic change. Sixtieth meridian civil time]

1921

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	
Hour	. 1		I			11	I		I		1		I	II	ш	Year
1 2 34	$ \begin{array}{c} \gamma \\ -6 \\ -6 \\ -3 \\ -2 \end{array} $	$ \begin{array}{c} \gamma \\ -4 \\ -4 \\ -3 \\ -1 \end{array} $	γ -7 -6 -6 -4	$ \begin{array}{c} \gamma \\ -7 \\ -6 \\ -5 \\ -2 \end{array} $	γ -4 -4 -4 -4	$ \begin{array}{c} \gamma \\ -5 \\ -3 \\ -2 \\ -1 \end{array} $	γ -3 -3 -3 -4	γ -4 -4 -4 -4	γ -1 -2 -2 -1	$ \begin{array}{c} $	$ \begin{array}{c} \gamma \\ -7 \\ -6 \\ -4 \\ -3 \end{array} $	γ -2 -1 0 +1	$ \begin{array}{c c} \gamma \\ -4.8 \\ -4.2 \\ -2.5 \\ -1.2 \end{array} $	$ \begin{array}{c} \gamma \\ -5.0 \\ -4.8 \\ -4.0 \\ -2.2 \end{array} $	-3.5 -3.2	$ \begin{array}{c c} \gamma \\ -4.6 \\ -4.2 \\ -3.2 \\ -2.2 \end{array} $
5 6 7 8	$-1 \\ 0 \\ +1 \\ +4$	0 +1 +3 +6	$ \begin{array}{r} -4 \\ -2 \\ -1 \\ +2 \end{array} $	$-2 \\ -2 \\ 0 \\ +2$	$ \begin{array}{r} -3 \\ -3 \\ -1 \\ +2 \end{array} $	$0 \\ 0 \\ +1 \\ +1$	$-3 \\ -2 \\ 0 \\ +1$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ +2 \end{array} $	$^{+1}_{+2}_{+2}$	$-1 \\ 0 \\ 0 \\ +3$	-1 +1 +3 +6	$^{+2}_{+3}_{+4}_{+7}$	$\begin{array}{c} .0 \\ +1.2 \\ +2.8 \\ +5.8 \end{array}$	$ \begin{array}{r} -1.5 \\5 \\ +.2 \\ +1.8 \end{array} $	$ \begin{array}{r} -2.2 \\ -1.8 \\2 \\ +1.5 \end{array} $	-1. 2 3 +. 9 +3. 0
9 10 11 12	+7 +8 +8 +8	+11 +10 +9 +7	$^{+6}_{+9}_{+11}_{+14}$	+5 +7 +9 +10	$^{+3}_{+4}_{+6}_{+7}$	$^{+2}_{+3}_{+6}$	$^{+4}_{+7}_{+12}_{+13}$	$^{+6}_{+15}_{+22}_{+19}$	$-2 \\ -1 \\ 0 \\ +2$	+6 +8 +9 +9	+9 +9 +8 +6	$^{+6}_{+4}_{0}_{-2}$	+8.2 +7.8 +6.2 +4.8	+3.8 +5.8 +7.2 +8.8	$^{+3.8}_{+7.2}$ $^{+11.5}_{+11.2}$	+5. 2 +6. 9 +8. 3 +8. 2
13	$^{+4}_{+1}_{-2}_{-2}$	+5 +2 -3 -5	+12 +8 +4 -1	+8 +6 +3 +2	+8 +6 +5 +3	$^{+6}_{+4}_{+3}_{-2}$	$^{+11}_{+5}_{0}_{-4}$	+14 +5 -4 -9	$^{+2}_{0}_{-2}_{-5}$	$^{+9}_{+3}_{-1}_{-6}$	+3 0 -3 -5	-4 -5 -5 -4	+2.0 5 -3.2 -4.0	+7.8 $+4.2$ $+1.0$ -2.5	+9.8 +5.0 +1.0 -3.0	+2.9 4
17 18 19 20	$-1 \\ 0 \\ -1 \\ -3$	-6 -4 -4 -4	-5 -6 -5 -5	$ \begin{array}{r} -2 \\ -4 \\ -3 \\ -3 \end{array} $	-1 -3 -3 -3	-5 -5 -2 0	$ \begin{array}{r} -7 \\ -7 \\ -4 \\ -2 \end{array} $	-11 -8 -5 -4	$ \begin{array}{r} -6 \\ -2 \\ +1 \\ +1 \end{array} $	$ \begin{array}{r} -7 \\ -4 \\ -2 \\ -2 \end{array} $	$ \begin{array}{r} -5 \\ -3 \\ -2 \\ -1 \end{array} $	$^{-3}_{\begin{subarray}{c}0\\+2\\+2\\+2\end{subarray}$	-3.8 -1.8 -1.2 -1.5	-5. 0 -4. 0 -2. 2 -2. 2	-6.0 -5.8 -3.5 -2.2	-4.9 -3.8 -2.3 -2.0
21 22 23 24	-3 -4 -3 -3	-4 -5 -4 -2	-4 -4 -3 -3	-4 -4 -4 -3	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ -1 \end{array} $	$\begin{array}{c} 0 \\ -2 \\ -2 \\ -1 \end{array}$	-2 -2 -2 -2	-5 -5 -5 -4	+2 +2 +4 +4	-2 -3 -3 -3	-1 0 -1 -3	+1 0 -2 -3	-1.8 -2.2 -2.5 -2.8	-2.0 -2.2 -1.5 -1.2	-2.2 -2.8 -2.5 -2.0	$ \begin{array}{r} -2.0 \\ -2.4 \\ -2.2 \\ -2.0 \end{array} $

1 2 3 4	$ \begin{array}{r} -4 \\ -2 \\ -2 \\ -1 \end{array} $	-9 -9 -7 -6	$-10 \\ -10 \\ -10 \\ -8$	-4 -5 -4 -3	$ \begin{array}{r} -3 \\ -2 \\ -2 \\ 0 \end{array} $	$0 \\ 0 \\ -1 \\ -1$	$0 \\ 0 \\ -1 \\ -1$	$^{+2}_{0}_{+2}$	$-2 \\ -2 \\ 0 \\ 0$	-2 -2 -1 -1	-4 -3 -2 -1	$ \begin{array}{r} -3 \\ -3 \\ -2 \\ -2 \end{array} $	-5.0 -4.2 -3.2 -2.5	-4.5 -4.8 -3.8 -3.0	-0.2 5 5 5	-3. 2 -3. 2 -2. 5 -2. 0
5 6 7 8	$^{+1}_{+2}_{+4}_{+8}$	-5 -4 -1 +4	-6 -5 -4 0	$-1 \\ 0 \\ +2 \\ +4$	$^{0}_{\stackrel{0}{+1}}^{0}$	$-1 \\ -2 \\ -1 \\ 0$	$-2 \\ -2 \\ 0 \\ +1$	$-1 \\ -1 \\ 0 \\ +3$	$0 \\ +1 \\ -1 \\ -1$	$^{+1}_{+2}_{+2}$	$^{+1}_{+2}_{+3}_{+6}$	$-1 \\ 0 \\ +2 \\ +5$	$ \begin{array}{r} -1.0 \\ .0 \\ +2.0 \\ +5.8 \end{array} $	-1.5 5 2 +1.2	$ \begin{array}{r} -1.0 \\ -1.2 \\ 0 \\ +1.0 \end{array} $	$6 \\ +.6$
9	+10 +7 +5 +4	$^{+9}_{+12}_{+13}_{+12}$	+5 +10 +14 +16	+7 +8 +11 +13	$^{+2}_{+4}_{+6}$	$^{+1}_{0}_{+4}$	$^{+2}_{+5}_{+7}$	+8 +13 +14 +11	$ \begin{array}{r} -1 \\ -1 \\ +2 \\ +5 \end{array} $	$^{+2}_{+1}_{+2}_{+4}$	+8 +7 +7 +4	+8 +7 +6 +4	+8.8 +8.2 +7.8 +6.0	+3. 2 +4. 5 +7. 2 +9. 5	+3. 2 +5. 5 +7. 8 +7. 2	$+5.1 \\ +6.1 \\ +7.6 \\ +7.6$
13 14 15 16	0 -4 -5 -3	$^{+11}_{+6}_{+1}_{-3}$	+15 +11 +5 -1	+9 +5 +3 -4	+6 +4 +3 +1	+5 +3 +2 -1	$^{+5}_{+2}_{+2}_{-2}$	$^{+4}_{-2}_{-7}_{-12}$	$^{+5}_{+2}_{-2}_{-5}$	$^{+4}_{+2}_{-2}_{-6}$	$^{+1}_{-2}$ $^{-5}$ $^{-6}$	$^{+3}_{-2}_{-4}_{-3}$	+3.8 5 -3.2 -3.8	+8.2 +5.0 +1.0 -4.0	+5.0 +1.8 .0 -3.5	+5.7 $+2.1$ 8 -3.8
17	$\begin{array}{c} 0 \\ 0 \\ -1 \\ -2 \end{array}$	$ \begin{array}{r} -5 \\ -4 \\ -2 \\ -2 \end{array} $	-7 -5 -4 -1	-7 -8 -5 -4	-3 -4 -4 -4	$ \begin{array}{r} -3 \\ -2 \\ -2 \\ 0 \end{array} $	$ \begin{array}{r} -6 \\ -6 \\ -5 \\ -2 \end{array} $	$ \begin{array}{r} -12 \\ -9 \\ -6 \\ -4 \end{array} $	$ \begin{array}{r} -5 \\ -2 \\ +1 \\ +1 \end{array} $	$-4 \\ -2 \\ 0 \\ 0$	-4 -3 -2 -1	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	-2.8 -2.2 -1.8 -1.8	-5.8 -4.2 -2.0 -1.0	-4.2	-4.8 -3.9 -2.7 -1.8
21	-2 -4 -4 -3	-2 -3 -4 -5	$ \begin{array}{r} -1 \\ -2 \\ -1 \\ -2 \end{array} $	-4 -4 -4 -5	-3 -4 -3 -1	$\begin{array}{c} 0 \\ -1 \\ -1 \\ +1 \end{array}$	$-2 \\ -1 \\ 0 \\ +1$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ +2 \end{array} $	$^{+2}_{+2}_{+1}_{-1}$	$^{0}_{+1}^{0}$	$ \begin{array}{r} -1 \\ -2 \\ -1 \\ -2 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	$ \begin{array}{r} -1.8 \\ -2.8 \\ -2.8 \\ -3.0 \end{array} $	8 -1.0 8 -2.0	$ \begin{array}{r} -2.0 \\ -2.0 \\ -1.2 \\ +.8 \end{array} $	-1.5 -1.9 -1.6 -1.4

Diurnal variation of Y

[Ten selected quiet days uncorrected for noncyclic change. Sixtieth meridian civil time]

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	eans	
Hour	ו		I		-	I)		₹	ω [1	II	ш	Year
1	γ -3 -4 -5 -4	$ \begin{array}{c} \gamma \\ -2 \\ -3 \\ -4 \\ -4 \end{array} $	γ 0 0 0 0	$\gamma \\ 0 \\ +1 \\ +1 \\ +2$	$ \begin{array}{c} \gamma \\ +1 \\ 0 \\ +1 \\ +4 \end{array} $	$ \begin{array}{c} \gamma \\ -2 \\ -1 \\ -2 \\ 0 \end{array} $	$ \begin{array}{c} \gamma \\ -1 \\ 0 \\ +1 \\ +3 \end{array} $	$ \begin{array}{c} \gamma \\ 0 \\ +1 \\ +2 \\ +4 \end{array} $	$\begin{array}{c} \gamma \\ -2 \\ 0 \\ +1 \\ +2 \end{array}$	$ \begin{array}{c} \gamma \\ -1 \\ -1 \\ -2 \\ -1 \end{array} $	γ 0 -1 -2 -2	$ \begin{array}{c} \gamma \\ -1 \\ -2 \\ -5 \\ -6 \end{array} $	$\begin{array}{c c} \gamma \\ -1.5 \\ -2.5 \\ -4.0 \\ -4.0 \end{array}$.0	0 +.5	8
5	-2 0 +2 +5	$-2 \\ -2 \\ +1 \\ +1$	$^{0}_{+2}_{+2}_{+6}$	$^{+2}_{+4}_{+8}$ $^{+8}_{+18}$	+4 +7 +15 +26	$^{+2}_{+6}$ $^{+14}_{+24}$	$^{+4}_{+8}$ $^{+15}_{+25}$	+6 +9 +20 +32	$^{+4}_{+6}$ $^{+14}_{+24}$	$^{0}_{+2}^{+2}_{+5}^{+12}$	$^{-1}_{\ 0\ +2}$	-4 -3 -3 -2	$\begin{vmatrix} -2.2 \\ -1.2 \\ .0 \\ +1.5 \end{vmatrix}$	+3.5 +7.2	1	$^{+1.1}_{+3.2}$ $^{+7.8}$
9 10 11 12	$^{+16}_{+23}_{+14}$	$^{+8}_{+16}_{+17}_{+9}$	+10 +14 +15 +11	$^{+23}_{+25}_{+19}_{+8}$	$^{+26}_{+19}_{+9}$	$^{+24}_{+17}_{+9}_{+2}$	$^{+24}_{+17}_{+7}_{-1}$	$^{+26}_{+11}_{-2}_{-10}$	$^{+24}_{+18}$ $^{+8}_{-3}$	$^{+18}_{+16}_{+10}_{+2}$	$^{+10}_{+14}_{+12}_{+6}$	$^{+7}_{+17}_{+20}_{+14}$	+17.5	$+18.2 \\ +13.0$	$+25.0 \\ +16.0 \\ +5.8 \\ -2.2$	$+17.2 \\ +11.5$
13 14 15 16	$ \begin{array}{r} -12 \\ -14 \\ -12 \\ -7 \end{array} $	$\begin{array}{c} 0 \\ -7 \\ -10 \\ -10 \end{array}$	$^{+2}_{-9}$ $^{-15}_{-14}$	$-8 \\ -20 \\ -24 \\ -23$	$ \begin{array}{r} -9 \\ -17 \\ -21 \\ -19 \end{array} $	-3 -8 -12 -12	-6 -13 -17 -17	-16 -18 -17 -13	-12 -17 -17 -12	-5 -10 -14 -13	$-1 \\ -6 \\ -10 \\ -12$	$^{+6}_{-4}$ $^{-13}_{-14}$	-7.8 -11.2	-14.0 -17.5	$ \begin{array}{r} -8.5 \\ -14.0 \\ -16.8 \\ -15.2 \end{array} $	-11.9 -15.2
17 18 19 20	$ \begin{array}{r} -3 \\ -1 \\ -1 \\ +1 \end{array} $	$ \begin{array}{r} -9 \\ -4 \\ -1 \\ 0 \end{array} $	-12 -7 -4 -1	-15 -10 -5 -4	$ \begin{array}{r} -14 \\ -10 \\ -6 \\ -5 \end{array} $	-10 -9 -8 -7	$ \begin{array}{r} -13 \\ -10 \\ -7 \\ -6 \end{array} $	-10 -7 -5 -4	$ \begin{array}{r} -9 \\ -7 \\ -6 \\ -4 \end{array} $	$ \begin{array}{r} -10 \\ -8 \\ -3 \\ 0 \end{array} $	$ \begin{array}{r} -9 \\ -5 \\ -1 \\ +2 \end{array} $	$-10 \\ -4 \\ 0 \\ +1$	-7.8 -3.5 8 +1.0	-8.0 -4.5	-11.8 -9.0 -6.5 -5.5	$ \begin{array}{r} -10.3 \\ -6.8 \\ -3.9 \\ -2.2 \end{array} $
21 22 23 23 24	$^{+2}_{+4}_{+2}$	$^{+2}_{+2}_{+2}_{-1}$	0 0 0	$^{-2}_{-1} \ 0 \ 0$	$ \begin{array}{r} -4 \\ -4 \\ -2 \\ -1 \end{array} $	-8 -7 -5 -4	$ \begin{array}{r} -6 \\ -4 \\ -2 \\ -1 \end{array} $	$ \begin{array}{r} -4 \\ -3 \\ -1 \\ 0 \end{array} $	-4 -3 -4 -2	$^{+2}_{+1}_{0}_{0}$	$^{+2}_{+2}_{+1}_{-1}$	$^{+2}_{+2}_{+2}$	+2.0 +2.5 +1.8 5	-1.0 8 -1.0 5	-4.5 -2.5	-1.5 9 6 8
							19	22			1	- 11				
1 2 3 4	$\begin{array}{c} 0 \\ -2 \\ -3 \\ -2 \end{array}$	$^{+1}_{0}_{-1}_{-2}$	0 0 0 -3	$0 \\ +2 \\ +3$	$ \begin{array}{r} -1 \\ -2 \\ -2 \\ -1 \end{array} $	-1 -1 -1 -1	$-2 \\ -2 \\ 0 \\ +2$	$\begin{array}{c} 0 \\ 0 \\ -2 \\ +2 \end{array}$	0 0 +2 +3	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -1 \end{array} $	$\begin{array}{c} 0 \\ -1 \\ -2 \\ -2 \end{array}$		0.0 -1.0 -2.0 -2.0	-0.5 5 +.5 +.5	$ \begin{array}{c} -1.0 \\ -1.2 \\ -1.2 \\ +.5 \end{array} $	-0.5 9 9
5 6 7 8	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -1 \end{array} $	$^{+1}_{+3}_{+2}_{+1}$	$^{0}_{+2}^{+2}_{+4}^{+9}$	$^{+3}_{+3}_{+7}_{+12}$	$^{+2}_{+3}_{+10}_{+19}$	$^{+2}_{+5}_{+14}_{+23}$	$^{+4}_{+7}_{+16}_{+29}$	+5 +9 +17 +26	$^{+6}_{+10}_{+17}_{+24}$	$^{0}_{\substack{+2 \ +5 \ +12}}$	$-1 \\ 0 \\ 0 \\ +2$	$ \begin{array}{c} -2 \\ 0 \\ +2 \\ +1 \end{array} $	-1.0 +.2 +.5 +.8	$^{+2.2}_{+4.2}$ $^{+8.2}_{+14.2}$	$+3.2 \\ +6.0 \\ +14.2 \\ +24.2$	$+1.5 \\ +3.5 \\ +7.7 \\ +13.1$
9 .0 .1 .1 .2	$^{+7}_{+16}$ $^{+18}_{+12}$	$^{+3}_{+4}$ $^{+3}_{0}$	$^{+14}_{+17}_{+16}_{+11}$	$^{+13}_{+14}_{+15}_{+11}$	$^{+23}_{+20}_{+14}_{+6}$	$^{+24}_{+20}_{+10}_{+2}$	$^{+29}_{+21}_{+9}_{-4}$	$^{+22}_{+11}_{+1}_{-5}$	$^{+24}_{+15}_{+2}_{-9}$	$^{+16}_{+14}_{+8}$	$^{+10}_{+14}_{+12}_{+6}$	+7 +11 +9 +4	+6.8 +11.2 +10.5 +5.5	$^{+16.8}_{+15.0}_{+10.2}_{+3.2}$	$^{+24.5}_{-18.0}$ $^{+8.5}_{2}$	$^{+16.0}_{+14.7}$ $^{+9.8}_{+2.8}$
3	$^{+2}_{-11}$ $^{-16}_{-15}$	$ \begin{array}{r} -2 \\ -2 \\ -3 \\ -1 \end{array} $	$^{+4}_{-4}$ $^{-12}$ $^{-14}$	$^{+2}_{-10}_{-20}$	$-2 \\ -10 \\ -16 \\ -17$	-7 -15 -17 -14	$ \begin{array}{r} -13 \\ -19 \\ -20 \\ -20 \end{array} $	$ \begin{array}{r} -9 \\ -13 \\ -15 \\ -13 \end{array} $	-16 -20 -19 -15	$ \begin{array}{r} -4 \\ -5 \\ -6 \\ -9 \end{array} $	$ \begin{array}{r} -3 \\ -9 \\ -12 \\ -11 \end{array} $	$ \begin{array}{r} -3 \\ -9 \\ -11 \\ -10 \end{array} $	$ \begin{array}{r} -1.5 \\ -7.8 \\ -10.5 \\ -9.2 \end{array} $	$-9.8 \\ -14.2$	-7.8 -14.2 -17.0 -16.0	-10.6 -13.9
17 8 9 20	$ \begin{array}{c} -8 \\ -3 \\ 0 \\ +1 \end{array} $	$ \begin{array}{r} -2 \\ -3 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -13 \\ -11 \\ -8 \\ -5 \end{array} $	$ \begin{array}{r} -17 \\ -9 \\ -4 \\ -3 \end{array} $	-13 -11 -8 -5	$ \begin{array}{r} -10 \\ -7 \\ -7 \\ -6 \end{array} $	$ \begin{array}{r} -12 \\ -8 \\ -5 \\ -4 \end{array} $	$ \begin{array}{r} -9 \\ -6 \\ -4 \\ -4 \end{array} $	-11 -8 -5 -2	-7 -7 -5 -3	$ \begin{array}{r} -7 \\ -4 \\ -1 \\ +2 \end{array} $	$ \begin{array}{r} -4 \\ 0 \\ +1 \\ +2 \end{array} $	-5. 2 -2. 5 8 +. 8	-12. 0 -8. 8 -5. 5 -3. 2	-11. 0 -8. 0 -6. 0 -4. 8	$ \begin{array}{r} -9.4 \\ -6.4 \\ -4.1 \\ -2.4 \end{array} $
21 22 23	+3 +4 +2	$^{0}_{+1}$	$ \begin{array}{r} -2 \\ -2 \\ -1 \end{array} $	$-1 \\ 0 \\ 0 \\ 0$	-5 -4 -1	$-5 \\ -4 \\ -3$	$-4 \\ -3 \\ -1$	$-5 \\ -3 \\ -2$	$^{+1}_{+2}_{-1}$	$-2 \\ -2 \\ -1$	$^{+2}_{+2}_{+2}$	$^{+2}_{+2}$	$+1.8 \\ +2.2 \\ +1.5$	-1.0 5 8	-4.8 -3.5 -1.8	-1.3 6 3

$Diurnal\ variation\ of\ I$

[Ten selected quiet days uncorrected for noncyclic change. Sixtleth meridian civil time]

	ī —						1									_
Hour	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Gre	oup me	ans	Year
2002		I	1	1		I	II		1	I		I	I	п	ш	100
1 2 3 4	+0.6 +.6 +.5 +.5	+0.4 +.3 +.3 +.2	+0.7 +.6 +.6 +.5	+0.6 +.6 +.5 +.3	+0.2 +.2 +.2 +.2	+0.4 +.3 +.2 +.1	+0.3 +.3 +.3 +.4	+0.3 +.4 +.4 +.4	+0.2 +.3 +.4 +.3	+0.4 +.4 +.3 +.3	+0.5 +.4 +.3 +.3	+0.3 +.2 +.1 +.1	+0.45 +.38 +.30 +.28	+0. 48 +. 48 +. 45 +. 35	+. 30	+0.4 +.3 +.3 +.3
5 6 7 8	+.3 +.2 +.1 1	+.2 +.2 +.1 1	+. 5 +. 4 +. 2 1	+.3 +.3 +.2 1	+. 2 +. 2 +. 2 . 0	.0 .0 1 2	+.3 +.3 +.1	+.3 +.3 +.2 2	+. 2 +. 1 . 0 . 0	+. 2 +. 2 +. 1 2	+.2 +.1 .0 3	.0 1 1 3	+. 18 +. 10 +. 02 20	+. 30 +. 25 +. 12 10	+. 20 +. 20 +. 10 10	+. 2 +. 1 +. 0 1
9 10 11 12	4 6 8 9		7 -1. 0	4 6 8 8		3 4 4 4				5 7 7 7	6 7 7 6	3 3 2 1	45 55 60 58	32 55 70 80	38 60 78 78	3 5 6 7
13 14 15 16	6 5 2 2	8 6 4 1	-1. 2 9 5 1	1	3 2 1	2 1 . 0 +. 3	8 6 2 +.2	-1.0 4 +.2 +.5	4 2 .0 +.1	4 2		+.1	48 30 15 . 00	75 50 22 . 00	60 35 05 +. 22	6 3 1 +.0
17 18 19 20	1 1 .0 +.3	.0 +.1 +.3 +.4	+.1 +.3 +.4 +.4	+. 1 +. 2 +. 1 +. 2	.0 +.1 +.1 +.1	+.3 +.3 +.1	+. 4 +. 4 +. 3 +. 2	+.6 +.5 +.4 +.3	+.3 +.1 .0	+.2	+. 2 +. 3 +. 2 +. 2	+. 1 . 0 2 1	+. 05 +. 08 +. 08 +. 20	+. 20 +. 20 +. 18 +. 20	+. 32 +. 32 +. 22 +. 15	+. 1 +. 2 +. 1 +. 1
21 22 23 24	+.3 +.4 +.4 +.4	+. 4 +. 5 +. 5 +. 4	+.4 +.3 +.3 +.3	+. 2 +. 3 +. 3 +. 2	+.1 +.1 +.1 .0	.0 +.1 +.1 +.1	+. 2 +. 2 +. 2 +. 1	+.4 +.4 +.4 +.4	.0 1 1	+. 2 +. 3 +. 3 +. 3	+. 2 +. 1 +. 2 +. 3	.0 +.1 +.2 +.3	+. 22 +. 28 +. 32 +. 35	+. 20 +. 22 +. 20 +. 18	+. 18 +. 20 +. 20 +. 15	+. 2 +. 2 +. 2 +. 2
	······································				·		1	922							, , , , , , , , , , , , , , , , , , ,	
1 2 3 4	+0.4 +.4 +.3 +.3	+0.6 +.7 +.6 +.6	+0.8 +.8 +.8 +.8	+0.4 +.4 +.3 +.3	+0. 2 +. 1 +. 1 . 0	-0.1 2 .0	0. 0 . 0 . 0 +. 1	-0.1 .0 1 .0	+0. 2 +. 3 +. 2 +. 2	+0.2 +.3 +.2 +.2	+0.4 +.3 +.3 +.2	+0.2 +.2 +.2 +.3	+0.40 +.40 +.35 +.35	+0.40 +.45 +.38 +.38	0.00 02 .00 +.02	+0. 2 +. 2 +. 2 +. 2
5 6 7 8	+. 2 +. 1 . 0 2	+.5 +.4 +.2 1	+. 6 +. 5 +. 4 +. 1	+.2 +.1 .0 2	.0 .0 .0 +.1	+.1 +.1 +.1	+. 2 +. 3 +. 2 +. 1	.0 +.1 .0 3	+.2 +.2 +.3 +.1	+. 2 +. 1 +. 1 1	+.1 +.1 .0 3	+.3 +.2 +.1 1	+. 28 +. 20 +. 08 18	+. 30 +. 22 +. 20 02	+. 08 +. 12 +. 08 02	+. 2 +. 1 +. 1 0
9 11 12	4 5 5 6	6 9 -1. 1 -1. 0		5 5 6 8	1 2 3	1 .0 2 2	1 3 5 6	7 9 -1.0 8	.0 1 3 6		5 5 6 4	4 6 7 7	48 62 72 68	25 40 58 75	22 32 48 48	3 4 5 6
3 4 5 6	5 3 1 1		-1.0 6 2	+.1	4 4 3 1	2 1 0 +.2		1 1	6 3 1 +. 1	4 3 1 +. 1	3 1 .0 +.2	.0	62 38 15 . 00	-, 75 -, 52 -, 25 +, 02	38 12 +. 02 +. 28	5 3 1 +. 1
7 8 9 90	1 .0 +.1 +.2	+.2 +.3 +.3 +.3	+.3 +.3 +.3 +.2	+.3 +.3 +.2 +.2	+.1 +.1 +.2 +.2	+.3 +.2 +.2	+.4 +.5 +.4 +.3	+.9 +.7 +.5 +.3	$^{+.1}_{+.2}_{0}$	+.1 +.1 +.1 .0	+.2 +.2 +.1 +.1	+. 2 +. 2 +. 3 +. 3	+. 12 +. 18 +. 20 +. 22	+. 20 +. 22 +. 15 +. 10	+. 42 +. 38 +. 32 +. 20	+. 2 +. 2 +. 2 +. 1
21 22 23	+.3 +.4 +.4	+.3 +.3 +.3	+.2 +.2 +.2	+.2 +.2 +.3	+.2 +.3 +.2	.0	+. 2 +. 1	+.2 +.1	1 1	+. 1 . 0	+.1 +.1	+.3 +.3	+. 25 +. 28 +. 28	+. 10 +. 08	+. 15 +. 12 +. 08	+.1 +.1

$\label{eq:Diurnal variation} Diurnal\ variation\ of\ F$ [Ten selected quiet days uncorrected for noncyclic change. Sixtieth meridian civil time]

-	00	

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	up me	ans	Year
Hour	I		11			m			. II		1		I	11	m	
1 2 34	γ 0 +1 +4 +4	$\gamma \\ 0 \\ -1 \\ 0 \\ +2$	$egin{pmatrix} \gamma & & & & & & \\ 0 & & & & & & \\ 0 & & +1 & & & \\ +2 & & & +2 & & \\ \end{array}$	$^{\gamma}_{-2} \\ ^{-1}_{0} \\ ^{+2}$	$ \begin{array}{c} \gamma \\ -2 \\ -2 \\ -2 \\ -2 \end{array} $	$\begin{array}{c} \gamma \\ -2 \\ 0 \\ 0 \\ -1 \end{array}$	γ 0 0 0 0	$\begin{array}{c} \gamma \\ -1 \\ 0 \\ 0 \\ 0 \end{array}$	$^{\gamma}_{ +2}_{ +2}_{ +3}_{ +3}$	$ \begin{array}{c} \gamma \\ -2 \\ -2 \\ 0 \\ +2 \end{array} $	$ \begin{array}{c} \gamma \\ -4 \\ -3 \\ -1 \\ 0 \end{array} $	γ +1 +1 +2 +4	$ \begin{array}{c} \gamma \\ -0.8 \\ 5 \\ +1.2 \\ +2.5 \end{array} $	$\begin{array}{c} \gamma \\ -0.5 \\2 \\ +1.0 \\ +2.2 \end{array}$	γ -1. 2 5 5 8	$ \begin{array}{c} \gamma \\ -0. \\ \\ +. \\ +1. \end{array} $
5 6 7 8	+3 +3 +4 +5	+3 +5 +7 +8		$^{+1}_{+1}_{+1}_{0}$	$-2 \\ -1 \\ 0 \\ -1$	-1 -1 -2 -5	$0 \\ 0 \\ 0 \\ -1$.0 0 0 -3	$^{+4}_{+5}_{+2}_{-4}$	$^{+2}_{+3}_{+2}$	$^{+1}_{+3}_{+4}_{+4}$	+4 +4 +5 +6	+2.8 +3.8 +5.0 +5.8	$+2.2 \\ +3.2 \\ +1.8 \\5$	-2.5	+1. +2. +2. +.
9 0 1 2		$^{+8}_{+5}_{+1}$		$-1 \\ -2 \\ 0 \\ +1$	+5	$ \begin{array}{c c} -6 \\ -3 \\ +2 \\ +4 \end{array} $	-3 0 +5 +6	$ \begin{array}{r} -3 \\ +5 \\ +11 \\ +10 \end{array} $	-6 -7 -6 -4	$-1 \\ 0 \\ +1 \\ +2$	$^{+3}_{+2}$ $^{0}_{-1}$	-6	$\begin{vmatrix} +4.2 \\ +1.5 \\ -1.2 \\ -2.8 \end{vmatrix}$	-1.2	+6.2	+. +1.
3 4 5 6	-2 -4 -5 -6	-5 -7 -9 -9	1 1	$^{+2}_{+4}_{+4}$	+6 +7 +7 +5	$^{+7}_{+6}$ $^{+6}_{+3}$	$^{+5}_{+1}$ $^{-1}_{-2}$	+7 +3 -2 -5	-2 -2 -2 -4	$^{+2}_{-1}$ $^{-3}_{-6}$	-3 -4 -4 -3	-7 -7 -6 -4	-4. 2 -5. 5 -6. 0 -5. 5	+.5 -0 2 -2.0	$\begin{vmatrix} +4.2 \\ +2.5 \\ +.2 \end{vmatrix}$	$\begin{bmatrix} -1 \\ -2 \end{bmatrix}$
7 8 9 0	1		-2	$ \begin{array}{r} 0 \\ -2 \\ -3 \\ -2 \end{array} $		$ \begin{array}{r} -1 \\ -2 \\ -1 \\ -1 \end{array} $	$ \begin{array}{r} -4 \\ -3 \\ -1 \\ 0 \end{array} $	$ \begin{array}{r} -6 \\ -4 \\ -2 \\ -2 \end{array} $	$ \begin{array}{c} -3 \\ 0 \\ +2 \\ +1 \end{array} $	-4 -1 0 0	$ \begin{array}{c} -2 \\ 0 \\ 0 \\ +2 \end{array} $	$-1 \\ 0 \\ 0 \\ +1$	-3.8 -1.5 5 +1.0		-1.8 -1.8	l
81 	$\begin{vmatrix} 0\\0\\+1\\+2\end{vmatrix}$	$\begin{array}{c c} +1 \\ +1 \\ +1 \\ +3 \\ \end{array}$	$\begin{bmatrix} 0 \\ -1 \\ 0 \\ 0 \end{bmatrix}$	-2 -2 -2 -1	-2 -1 -1 -1	$ \begin{array}{c} 0 \\ -1 \\ -1 \\ -1 \end{array} $	0 0 0 -1	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ 0 \end{array} $	+3 +3 +4 +4	0 0 0 0	$^{+2}_{+2}_{+2}_{0}$	+2 +2 0 0	$\begin{vmatrix} +1.2 \\ +1.2 \\ +1.0 \\ +1.2 \end{vmatrix}$		-1.0	1
							19	22								
1	$\begin{array}{ c c c } +1 \\ +3 \\ +2 \\ +3 \end{array}$	-4 -2 -1	$-3 \\ -2$	-1 -1	$-1 \\ -1$	-2 -2 -2 -1	$-1 \\ -1 \\ -1 \\ 0$	$^{+1}_{+1}_{+2}$	+1 +2 +3 +3	$^{0}_{+1}$ $^{+2}$ $^{+2}$	$\begin{array}{c} 0 \\ 0 \\ +1 \\ +2 \end{array}$	-1	$\begin{vmatrix} & .0 \\ +.5 \\ +1.5 \end{vmatrix}$	-, 2 +, 5 +1, 2	-0.8 8 8	-0 + +
5 6 7 8	$\begin{array}{c c} +4 \\ +5 \\ +6 \\ +9 \end{array}$	+1 +2 +5	$\begin{pmatrix} 0 & 0 \\ 0 & +1 \\ 0 & 0 \end{pmatrix}$	1	$ \begin{array}{c c} -1 \\ 0 \\ +1 \\ -1 \end{array} $	-1 -1 -1 -3	$\begin{array}{c} 0 \\ +1 \\ +1 \\ -1 \end{array}$	$-1 \\ -1 \\ -2 \\ -3$		$^{+4}_{+4}_{+4}$		1				ŧ
9 10 11 12	t	l l	1	1			$-2 \\ +1 \\ +1 \\ +1 \\ +1$	$^{0}_{+4}$ $^{+6}$ $^{+5}$		-2 -3 -2 0	1	$-3 \\ -4$	ii .	+1.0		
13 14 15 16			ı	1	1	1	i		1	i .	1	1	!!	$\begin{vmatrix} + $	1	4 -2
17 18 19 20	1	1 +	1		1	1		1	1	-1 +2 +1	1		-1.0 +.2 +.3			5 +
21 22 23	- +	1 +	1 +: 0 (1 +:	- - -	$ \begin{array}{c ccc} 2 & -2 \\ 2 & -2 \\ 2 & -1 \end{array} $	$\begin{bmatrix} 0 \\ -1 \\ -2 \end{bmatrix}$	$egin{pmatrix} 0 \\ 0 \\ -1 \end{bmatrix}$	-1 -1 -1	$\begin{array}{c c} +2 \\ +2 \\ +1 \end{array}$	+2 +1 +1	-1 -1	1 +2	+1.0 +.5) +.: 2 +.: 0 +.:	8 2 -1. 5 -1.	8 +

$Diurnal\ variation\ of\ D$

[International quiet days corrected for noncyclic change. Greenwich mean civil time]

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
11001	1	ī	1	1		11	п		I	I	1		I	п	ш	1001
1 2	+0.1 +.1 +.2 1	+0. 2 +. 2 +. 3 . 0	$+.1 \\ +.2$	2	6 4	-0.9 7 4 1	-0.7 4 2 1	1	-0.4 3 3 2	+0.1 +.1 .0	+0.2 +.1 0	, +0.1 +.1 +.1 1	+0. 15 +. 12 +. 15 05	10	-0. 58 45 20 02	14 04
5 6 7 8	5 6 7 4	2 3	+ 1	+.1 +.2	2 2 +. 1 +. 5	3 4 4	1 0 +.2	+.3 +.4 +.4 +.6	2 1 1 +.1	2 2 2 1	.0 1 3 3	1 3 5 7	20 30 45 42	02 . 00		18 14
9	3 1 +.3 +.5	+.2	+.2 +.3 +.5 +.9	$^{+.4}_{+.5}_{+.9}_{+2.0}$	+. 5 +. 9 +1. 9 +3. 2	3 +.2 +1.3 +2.5	+. 5 +. 8 +1. 6 +2. 6	+.9 +1.4 +2.7 +3.8	+. 2 +. 5 +1. 5 +2. 9	.0 +.3 +.8 +1.8	1 .0 +.2 +.6	6 5 5 4	28 15 +. 05 +. 22	+. 20 +. 40 +. 92 +1. 90	+. 40 +. 82 +1. 88 +3. 02	1 4 36
13	+2.0 +2.8 +1.8 +.3	+1.2 + .5	$^{+1.4}_{ +1.7}$ $^{+1.4}_{ +.9}$	+2.7 $+3.0$ $+2.3$ $+1.2$	$+3.2 \\ +2.3 \\ +1.0 \\3$	+2.8 +2.1 +1.4 +.9	$+2.4 \\ +1.6 \\ +.8 \\ +.2$	$+3.0 \\ +.9 \\6 \\ -1.4$	+3.3 +2.7 +1.6 1	+2.7 +2.5 +1.5 +.5	$+1.5 \\ +1.9 \\ +1.6 \\ +.6$	+2.5 +2.2	1	+2.52 $+2.48$ $+1.70$ $+.62$	+2.85 +1.72 +.65 15	+2. 20 +2. 08 +1. 38 +. 46
17 18 19 20	-1. 2 -1. 5 -1. 3 7	7 9 8 7	$ \begin{array}{r}2 \\ -1.3 \\ -1.9 \\ -1.8 \end{array} $	9 -2. 3 -2. 8 -2. 7	-1. 5 -2. 2 -2. 5 -1. 9	+.3 4 -1.2 -1.5	3 -1.2 -1.8 -1.9	$ \begin{array}{r} -2.2 \\ -2.8 \\ -2.6 \\ -2.2 \end{array} $	$ \begin{array}{r} -1.4 \\ -2.1 \\ -2.2 \\ -1.6 \end{array} $	$ \begin{array}{r}7 \\ -1.7 \\ -2.3 \\ -2.0 \end{array} $	2 9 -1. 4 -1. 6	+1.3 $+.1$ -1.4 -1.7		80 -1. 85 -2. 30 -2. 02	-1.65 -2.02 -1.88	-1.85 -1.69
21 22 23 24	2 2 2 . 0	6 3 1 .0	-1. 4 8 5 1	-1.9 -1.1 7 5	-1. 1 8 7 6	-1.5 -1.1 -1.0 9	-1. 6 -1. 0 7 7	-1. 5 8 4 2	-1. 4 -1. 1 8 5	$ \begin{array}{c c} -1.6 \\ -1.0 \\3 \\ .0 \end{array} $	-1.1 7 1 +.1	-1.3 6 1 1	80 45 12 . 00	-1. 58 -1. 00 58 28	49	-1. 27 79 47 29
	-				-		19	22								
1 2 3 4	+0. 4 +. 4 +. 2 +. 1	+0. 2 +. 2 . 0 1	4	2	5 2	3 3	2 1	3 2	+.3 +.3	2 2	+.3	+.3 +.2	+0. 22 +. 30 +. 12 . 00	18 10	-0.50 32 20 12	—. 07
5	+.1 2 5 4	2	4	+.2	- 1	2 1 1 1	2 1	+. 1 +. 1 . 0 +. 4	+.1 +.2	1 1 .0	$\begin{bmatrix}3 \\2 \end{bmatrix}$	2 2	l —. 28	一. 05 十. 05	15 08 10 +. 08	10 11
9 10 11 12	3 2 .0 +.2	+.3 +.3	1 1 +.3 +.7	+.3 +.3 +.6 +1.1	+.1 $+.4$ $+1.2$ $+2.1$	+.3 $+.6$ $+1.4$ $+2.5$	+.3 +.6 +1.3 +3.1	+. 6 +1. 1 +2. 2 +3. 1	+. 7 +1. 0 +2. 1 +3. 1	+. 1 +. 4 +. 9 +1. 7	1 1 1 +.1	+.1	+.08	+. 25 +. 40 +. 98 +1. 65	+1.52	+.36
13 14 15 16	+2.5	+. 2 +. 3 . 0 4	+1.1 +1.4	$+1.4 \\ +1.6$	$+2.4 \\ +2.2$	$+2.8 \\ +2.4$	+3. 3 +2. 3 +1. 1 2	$+2.5 \\ +1.0$	$+3.2 \\ +2.2$	$+1.8 \\ +1.4$	+1.2 + 1.5 + 1.2	$^{+1.0}_{+1.4}_{+1.2}_{+.6}$	+. 95 +1. 42 +1. 28 +. 62	+1.88 +1.65 +1.28 +.52	+2.75 $+1.98$ $+1.02$ $+.05$	+1.86 $+1.68$ $+1.19$ $+.40$
17 18 19 20	$ \begin{array}{r} .0 \\ -1.8 \\ -2.4 \\ -2.2 \end{array} $	2	+.8 +.4 2 5	+1.1 4 -1.9 -2.4	2 -1. 1 -1. 7 -1. 8	$ \begin{array}{c c} -1.5 \\ -1.6 \\ -2.2 \\ -1.9 \end{array} $	$ \begin{array}{c} -1.2 \\ -1.8 \\ -2.2 \\ -2.2 \end{array} $	$ \begin{array}{r} -1.5 \\ -1.8 \\ -2.0 \\ -1.6 \end{array} $	-2. 3 -3. 0 -2. 9 -2. 4	7 6 8 8	2 8 -1. 0 -1. 1	4 -1. 2 -1. 2 -1. 0	25 -1. 00 -1. 15 -1. 00	28 90 -1. 45 -1. 52	85 -1. 58 -2. 02 -1. 88	46 -1.16 -1.54 -1.47
21 22 23	-1.0 4 1	+. 2 2 3	9 -1.1 -1.1	$ \begin{array}{c c} -2.1 \\ -1.3 \\8 \end{array} $	-1. 4 -1. 2 8	-1. 6 -1. 0 8	-1. 4 8 5	9 5 4	$ \begin{array}{c c} -1.7 \\ -1.1 \\4 \end{array} $	6 8 6	7 5 1	5 . 0 . 0	50 28 12	-1.32 -1.08 72	-1.32 88 62	-1.05 74 49

Diurnal variation of H

[International quiet days corrected for noncyclic change. Greenwich mean civil time] $1921 \label{eq:constraint}$

							10	21								
Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oet.	Nov.	Dec.	Gro	oup me	ans	Year
Hour	1		II			11	I.		11	[I		I	п	ш	
1 2 3 4	γ -1 -1 -1 -3	$ \begin{array}{c} \gamma \\ -4 \\ -5 \\ -4 \\ -3 \end{array} $	$^{\gamma}_{-6} \\ ^{-7}_{-6} \\ ^{-7}_{-7}$	γ -8 -7 -8 -7	$ \begin{array}{c} $	$ \begin{array}{c} \gamma \\ -2 \\ -5 \\ -5 \\ -4 \end{array} $	$ \begin{array}{c} \gamma \\ -2 \\ 0 \\ +1 \\ -1 \end{array} $	γ -5 -4 -3 -1	γ +3 +3 +4 +3	$ \begin{array}{c} \gamma \\ -1 \\ -1 \\ -3 \\ -3 \end{array} $	$ \begin{array}{c} \gamma \\ -2 \\ -3 \\ -4 \\ -5 \end{array} $	$ \begin{array}{c} \gamma \\ -1 \\ -2 \\ -2 \\ -2 \end{array} $	$\begin{array}{c} \gamma \\ -2.0 \\ -2.8 \\ -2.8 \\ -3.0 \end{array}$	$ \begin{array}{c} \gamma \\ -3.0 \\ -3.0 \\ -3.2 \\ -3.5 \end{array} $	$\begin{vmatrix} -3.0 \\ -2.2 \end{vmatrix}$	-2.9 -2.8
5 6 7 8	-3 -4 -2 -2	$ \begin{array}{r} -4 \\ -4 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -7 \\ -6 \\ -5 \\ -2 \end{array} $	$ \begin{array}{r} -7 \\ -6 \\ -5 \\ -4 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	$^{-2}_{-1}_{0}_{+2}$	-2 -1 -2 -3	$ \begin{array}{r} -2 \\ -2 \\ -3 \\ -3 \end{array} $	$^{+2}_{+1}_{+1}_{+3}$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ 0 \end{array} $	-4 -3 -1 -1	$^{-1}_{\ \ 0}_{\ +2}$	-3.0 -2.8 -1.5 8		$ \begin{array}{c c} -1.5 \\ -1.8 \\ -1.5 \end{array} $	$ \begin{array}{c c} -2.5 \\ -1.9 \\ -1.0 \end{array} $
9 10 11 11 12	$-2 \\ -1 \\ 0 \\ +2$	$^{-1}_{\begin{subarray}{c}0\\+2\\+5\end{subarray}$	$ \begin{array}{r} -1 \\ +1 \\ +1 \\ +3 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ +1 \end{array} $	$^{-2}_{-2} \ ^{0}_{0}$	+1 0 0 0		$ \begin{array}{r} -3 \\ -4 \\ -4 \\ -2 \end{array} $	$^{+4}_{+4}_{+3}_{-3}$	$^{+1}_{+2}_{+1}_{+2}$	$^{+1}_{+2}_{+3}_{+6}$	$^{+2}_{+3}_{+4}_{+7}$	$\begin{vmatrix} .0 \\ +1.0 \\ +2.2 \\ +5.0 \end{vmatrix}$		-1.0	1
13 14 15 16	+4 +4 +7 +7	+7 +7 +6 +6	$^{+6}_{+9}_{+10}_{+13}$	+5 +7 +9 +11	+4 +7 +7 +7	$-1 \\ +1 \\ +4 \\ +5$	$^{0}_{+5}$ $^{+10}$ $^{+12}$	+5 +17 +24 +19	-8 -7 -4 -1	$^{+2}_{+3}_{+4}_{+6}$	+7 +7 +7 +6	$^{+6}_{+2}$ $^{0}_{-2}$	+6. 0 +5. 0 +5. 0 +4. 2		1	
17	$^{+5}_{+2}_{-2}_{-4}$	+5 +5 +1 -1	+12 +8 +5 +1	$^{+12}_{+12}_{+10}_{+6}$	$^{+6}_{+4}_{+3}_{+1}$	$^{+5}_{+6}_{+5}_{+1}$	$^{+10}_{+5}_{+1}_{-2}$	$^{+11}_{+2}_{-5}_{-9}$	$ \begin{array}{c} 0 \\ -2 \\ -2 \\ -4 \end{array} $	$^{+6}_{+3}_{-1}_{-3}$	+3 +1 -3 -5	-3 -5 -5 -3	+2.5 +.5 -2.2 -3.2	+5. 2 +3. 0 . 0	-2.2	1
21 22 23 24	$ \begin{array}{r} -3 \\ -1 \\ +1 \\ -1 \end{array} $	$ \begin{array}{r} -2 \\ -4 \\ -4 \\ -4 \end{array} $	$ \begin{array}{r} -4 \\ -6 \\ -7 \\ -6 \end{array} $	-5 -6 -6	-3 -4 -5 -5	$ \begin{array}{r} -1 \\ -3 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -8 \\ -7 \\ -4 \\ -2 \end{array} $	-11 -8 -5 -4	$^{-4}_{0}_{+2}$	$ \begin{array}{r} -4 \\ -2 \\ -2 \\ -2 \end{array} $	-5 -3 -1 -1	$^{-2}_{+1}_{+1}_{0}$	-3. 0 -1. 8 -1. 0 -1. 8	-3. 0 -3. 2 -3. 2 -3. 0	-5. 8 -5. 5 -4. 2 -3. 2	-3. 9 -3. 5 -2. 8 -2. 7
							19	22								
1 2 3 4	-3 -4 -4 -4	-3 -3 -4 -6	-2 -2 -3 -5	-3 -3 -4 -4	-3 -3 -3 -1	-2 -1 -1 -1	-3 -4 -2 -3	$-2 \\ -1 \\ 0 \\ +1$	+1 +1 +1 -1	$0 \\ +1 \\ 0 \\ -1$	-4	-3 -4 -3 -3	$ \begin{array}{r rrrr} -3.0 \\ -3.8 \\ -3.5 \\ -4.2 \end{array} $	$ \begin{array}{c c} -1.0 \\8 \\ -1.5 \\ -2.8 \end{array} $	-2.5 -2.2 -1.5 -1.0	-2. 2 -2. 2 -2. 2 -2. 7
5 6 7 8	$ \begin{array}{c c} -3 \\ -2 \\ -2 \\ -1 \end{array} $	-6 -7 -6 -5	-5 -6 -6 -4	-4 -4 -3 -3	-1 -1 -1 +1	0 -2 -3	0 -2 -3	+1 0 -1 -1	+1 +1 +1 +1	$-1 \\ 0 \\ -1 \\ -2$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ 0 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	-3. 5 -3. 2 -2. 8 -2. 0	-2. 2 -2. 2 -2. 2 -2. 0	2 -1. 5 -1. 5	-1.9 -1.9 -2.2 -1.8
9	$egin{pmatrix} 0 \\ 0 \\ +1 \\ +4 \end{pmatrix}$	$-2 \\ +4$	$-1 \\ 0 \\ 0 \\ +2$	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ +3 \end{array} $	+1 0 0 0	-3 -4 -4 -4	$ \begin{array}{r} -4 \\ -4 \\ -2 \\ 0 \end{array} $	$ \begin{array}{r} -2 \\ -3 \\ -1 \\ 0 \end{array} $	$^{0}_{+1}$ $^{0}_{0}$ $^{-2}$	$-1 \\ +1 \\ +1 \\ 0$		$-1 \\ 0 \\ +2 \\ +5$	$ \begin{array}{c c} -1.2 \\2 \\ +1.2 \\ +5.0 \end{array} $	+.8	$ \begin{array}{c c} -2.8 \\ -1.8 \\ -1.0 \end{array} $	$\begin{array}{c c} -1.0 \\2 \\ +1.6 \end{array}$
13 14 15 16	$\begin{array}{c c} +7 \\ +5 \\ +2 \\ +1 \end{array}$	$^{+9}_{+12}_{+14}$	+8 +12 +14 +13	+6 +9 +11 +11	+2 +6 +9 +9	$ \begin{array}{r} -3 \\ -1 \\ +5 \\ +10 \end{array} $	+1 +7 +11 +12	+6 +11 +14 +12	$^{-4}_{-4}_{0} \\ ^{+4}$	$^{0}_{+1}_{+2}_{+4}$		+7 +7 +7 +6	+7.5 +8.0 +7.5 +6.5	+8.0	+9.8 +10.8	+8.4
17	$ \begin{array}{c c} -3 \\ 0 \\ +2 \\ +2 \end{array} $	$+13 \\ +7 \\ 0 \\ -6$	-6	+8 +5 0 -3	$^{+6}_{+2}_{0}_{-2}$	+10 +8 +5 0	$^{+9}_{+4}_{+2}_{-2}$	$^{+6}_{+2}_{-5}_{-10}$	+5 +4 -1 -4	$^{+4}_{+2}_{-2}_{-5}$		$^{+3}_{-1}_{-4}_{-2}$	+4.0 +1.5 -1.2 -3.0	+6.8 +4.2 -1.0 -4.5	+7.8 +4.0 +.5 -3.5	+6. 2 +3. 2 6 -3. 7
21	+1 +1	-7 -4	-9 -8	-5 -5	$-5 \\ -5$	$-3 \\ -2$	$-5 \\ -7$	-10 -9	-4 0	$-2 \\ -2$	$-6 \\ -5$	$^{-2}_{-2}$	-3.5 -2.5	-5.0 -3.8	-5.8 -5.8	-4.8 -4.0

$\textit{Diurnal variation of } \mathbf{X}$

[International quiet days corrected for noncyclic change. Greenwich mean civil time]

1921

				. 1	. 1				. [. 1					
Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
	1	[I			11	1		n	[I	-	1	п	ш	Icai
1 2 3	$ \begin{array}{c} \gamma \\ -1 \\ -1 \\ -1 \\ -3 \end{array} $	$ \begin{array}{c} \gamma \\ -4 \\ -5 \\ -4 \\ -3 \end{array} $	γ -6 -7 -6 -7	γ -8 -7 -8 -7	$ \begin{array}{c} \gamma \\ -3 \\ -3 \\ -2 \\ -2 \end{array} $	$ \begin{array}{c} \gamma \\ -2 \\ -5 \\ -5 \\ -4 \end{array} $	$egin{array}{c} \gamma \\ -2 \\ 0 \\ +1 \\ -1 \end{array}$	γ -5 -4 -3 -1	$ \begin{array}{c} $	$ \begin{array}{c} \gamma \\ -1 \\ -1 \\ -3 \\ -3 \end{array} $	γ -2 -3 -4 -5	$ \begin{array}{c} \gamma \\ -1 \\ -2 \\ -2 \\ -2 \end{array} $	$\begin{array}{c} \gamma \\ -2.0 \\ -2.8 \\ -2.8 \\ -3.2 \end{array}$	γ -3. 0 -3. 0 -3. 2 -3. 5	$\begin{array}{c} \gamma \\ -3.0 \\ -3.0 \\ -2.2 \\ -2.0 \end{array}$	7 -2.7 -2.9 -2.8 -2.9
5 6 7 8	$ \begin{array}{r} -3 \\ -4 \\ -2 \\ -2 \end{array} $	$ \begin{array}{r} -4 \\ -4 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -7 \\ -6 \\ -5 \\ -2 \end{array} $	-7 -6 -5 -4	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	$-2 \\ -1 \\ 0 \\ +2$	$ \begin{array}{r} -2 \\ -1 \\ -2 \\ -3 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -3 \\ -3 \end{array} $	$^{+2}_{+1}_{+1}_{+3}$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ 0 \end{array} $	$ \begin{array}{r} -4 \\ -3 \\ -1 \\ -1 \end{array} $	$-1 \\ 0 \\ 0 \\ +2$	-3. 0 -2. 8 -1. 5 8	-3.8 -3.2 -2.5 8	-1.5 -1.8	-2.5
9 10 11 12	$-2 \\ -1 \\ 0 \\ +2$	$^{-1}_{ \begin{subarray}{c} 0 \ +2 \ +5 \end{subarray}}$	-1 +1 +1 +4	$^{-2}_{-2}_{0}_{+2}$	$ \begin{array}{r} -2 \\ -2 \\ +1 \\ +2 \end{array} $	$^{+1}_{0}_{+1}$	-3 -3 -1 -1	$ \begin{array}{r} -2 \\ -3 \\ -2 \\ 0 \end{array} $	$^{+4}_{+4}_{+4}_{-1}$	$^{+1}_{+2}_{+1}_{+3}$	$^{+1}_{+2}_{+3}_{+6}$	$^{+2}_{+3}_{+4}_{+7}$.0 +1.0 +2.2 +5.0	+. 5 +1. 2 +1. 5 +2. 0	$ \begin{array}{r} -1.5 \\ -2.0 \\ -1.2 \\ -1.5 \end{array} $	+.1 +1.2
13 14 15 16	+5 +6 +8 +7	+7 +8 +7 +6	+7 +10 +11 +14	$^{+6}_{+9}_{+10}_{+12}$	+6 +8 +8 +7	$^{0}_{+2}^{+5}_{+6}$	$^{+1}_{+6}_{+10}$	$^{+7}_{+18}$ $^{+24}_{+18}$	$ \begin{array}{r} -6 \\ -6 \\ -3 \\ -1 \end{array} $	+4 +4 +5 +6	+8 +8 +8 +6	+6 +3 +1 -1	+6.5 +6.2 +6.0 +4.5	+2.8 +4.2 +5.8 +7.8	+3. 5 +8. 5 +11. 8 +10. 8	+4. 2 +6. 3 +7. 8 +7. 7
17	$^{+4}_{+1}$ $^{-3}_{-4}$	+5 +4 +1 -1	+12 +7 +4 0	$^{+12}_{+11}_{+8}_{+8}$	$^{+5}_{+3}$ $^{+2}_{0}$	+5 +6 +4 0	$^{+10}_{+4}$ $^{0}_{-3}$	$^{+10}_{0}_{-6}_{-10}$	$ \begin{array}{r} -1 \\ -3 \\ -3 \\ -5 \end{array} $	$^{+6}_{+2}_{-2}_{-4}$	+3 0 -4 -6	-2 -5 -6 -4	+2.5 .0 -3.0 -3.8	+7. 2 +4. 2		+5.8 +2.5
21 22 23 24	$ \begin{array}{r} -3 \\ -1 \\ +1 \\ -1 \end{array} $	-2 -4 -4 -4	-5 -6 -7 -6	$ \begin{array}{r} -1 \\ -6 \\ -6 \\ -6 \end{array} $	-4 -4 -5 -5	-2 -4 -4 -2	-9 -8 -4 -2	-12 -8 -5 -4	-5 -1 +2 +2	$ \begin{array}{r} -5 \\ -2 \\ -2 \\ -2 \end{array} $	-6 -3 -1 -1	$ \begin{array}{r} -3 \\ +1 \\ +1 \\ 0 \end{array} $	-3.5 -1.8 8 -1.5	-4. 0 -3. 8 -3. 2 -3. 0	-6.8 -6.0 -4.5 -3.2	-2.8

1 2 3 4	-3 -4 -4 -4	-3 -3 -4 -6	-2 -2 -3 -5	1	-3 -3 -3 -1	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ -1 \\ -1 \end{array} $	-3 -4 -2 -3	$-2 \\ -1 \\ 0 \\ +1$	+1 +1 +1 -1	$0 + 1 \\ 0 \\ -1$	-3 -4 -3 -4	-3 -4 -3 -3	$ \begin{array}{r r} -3.0 \\ -3.8 \\ -3.5 \\ -4.2 \end{array} $	$ \begin{array}{r r} -1.0 \\8 \\ -1.5 \\ -2.8 \end{array} $	$ \begin{array}{c c} -2.5 \\ -2.2 \\ -1.5 \\ -1.0 \end{array} $	-2. 2 -2. 2 -2. 2 -2. 7
5 6 7	-3 -2 -2 -1	-6 -7 -6 -5	-5 -6 -6 -4	1	$ \begin{array}{r} -1 \\ -1 \\ -1 \\ +1 \end{array} $	$\begin{array}{c} 0 \\ 0 \\ -2 \\ -3 \end{array}$	$\begin{array}{c} 0 \\ 0 \\ -2 \\ -3 \end{array}$	$^{+1}_{0}_{-1}$	+1 +1 +1 +1	$ \begin{array}{c} -1 \\ 0 \\ -1 \\ -2 \end{array} $	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ 0 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \end{array} $	-3. 5 -3. 2 -2. 8 -2. 0	$ \begin{array}{r} -2.2 \\ -2.2 \\ -2.2 \\ -2.0 \end{array} $	2 -1. 5 -1. 5	-1.9° -1.9° -2.2° -1.8°
9 10 11 12	$0 \\ +1 \\ +4$	$ \begin{array}{r} -5 \\ -4 \\ -2 \\ +4 \end{array} $	$-1 \\ 0 \\ 0 \\ +2$	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ +4 \end{array} $	$^{+1}_{0}_{+1}$	-3 -4 -3 -3	$ \begin{array}{r} -4 \\ -4 \\ -1 \\ +2 \end{array} $	$^{-2}_{-2}_{0}_{+2}$	$^{0}_{+2}$ $^{+1}$ 0	$-1 \\ +1 \\ +2 \\ +1$	$^{+1}_{+3}_{+4}_{+7}$	$-1 \\ 0 \\ +2 \\ +5$	$ \begin{array}{c c} -1.2 \\2 \\ +1.2 \\ +5.0 \end{array} $	$ \begin{array}{r} -1.0 \\ +.2 \\ +.5 \\ +1.8 \end{array} $	-2.0 -2.5 8 +.5	$ \begin{array}{r} -1.4 \\8 \\ +.3 \\ +2.4 \end{array} $
13 14 15 16	+8 +6 +4 +2	+9 +12 +14 +14	+9 +13 +15 +14	$^{+7}_{+10}_{+12}$ $^{+12}_{+12}$	+3 +7 +10 +9	$^{-2}_{\begin{subarray}{c} +6 \\ +10 \end{subarray}}$	$^{+3}_{+8}$ $^{+12}_{+12}$	$+7 \\ +12 \\ +14 \\ +12$	$-2 \\ -3 \\ 0 \\ +3$	$^{+1}_{+2}_{+2}_{+4}$	$^{+8}_{+9}_{+8}_{+5}$	+8 +8 +8 +6	+8. 2 +8. 8 +8. 5 +6. 8	+3.8 +5.5 +7.2 +8.2	$^{+2.8}_{+6.8}$ $^{+10.5}_{+10.8}$	+4.9° +7.0° +8.8° +8.6
17 18 19 20	$ \begin{array}{r} -3 \\ -1 \\ +1 \\ +1 \end{array} $	$^{+13}_{}^{}$	$^{+10}_{+6}_{-1}_{-6}$	$^{+9}_{+5}_{-1}_{-4}$	$^{+6}_{+1}_{-1}_{-3}$	+10 +7 +4 -1	+8 +3 +1 -3	$^{+5}_{+1}_{-6}_{-11}$	$^{+4}_{+2}_{-3}_{-5}$	$^{+4}_{+2}_{-2}_{-5}$	$^{+3}_{00000000000000000000000000000000000$	$^{+3}_{-2}$ $^{-5}$ $^{-2}$	$ \begin{array}{r} +4.0 \\ +1.0 \\ -2.0 \\ -3.5 \end{array} $	+6.8 +3.8 -1.8 -5.0	+7.2 +3.0 5 -4.5	+6.0 $+2.6$ -1.4 -4.3
21 22 23 24	$^{0}_{+1}$ $^{0}_{-1}$	-7 -4 -2 -2	-10 -9 -6 -2	-6 -6 -3 -3	-6 -6 -5 -4	$ \begin{array}{r} -4 \\ -2 \\ -2 \\ -2 \\ -2 \end{array} $	-6 -7 -5 -3	-11 -9 -5 -3	-5 -1 +1 0	$ \begin{array}{c} -2 \\ -2 \\ 0 \\ 0 \end{array} $	$ \begin{array}{r} -6 \\ -5 \\ -3 \\ -2 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -3 \end{array} $	-3.8 -2.5 -1.8 -2.0	-5.8 -4.5 -2.0 -1.2	-6.8 -6.0 -4.2 -3.0	-5. 4 -4. 3 -2. 7 -2. 1

Diurnal variation of Y

[International quiet days corrected for noncyclic change. Greenwich mean civil time] 1921

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	up me	ans	Year
Hour	I		п			11	I		I)		I		I	п	III	real
1 2 34	$\gamma \\ +1 \\ +1 \\ +2 \\ -1$	$ \begin{array}{c} \gamma \\ +2 \\ +2 \\ +3 \\ 0 \end{array} $	$\gamma \\ 0 \\ +1 \\ +2 \\ +1$	$ \begin{array}{c} \gamma \\ -2 \\ -2 \\ -1 \\ +1 \end{array} $	$ \begin{array}{c} \gamma \\ -4 \\ -5 \\ -3 \\ -2 \end{array} $	γ -7 -5 -3 0	$ \begin{array}{c} \gamma \\ -6 \\ -3 \\ -2 \\ -1 \end{array} $	$ \begin{array}{c} \gamma \\ -1 \\ 0 \\ +2 \\ +3 \end{array} $	$ \begin{array}{c} \gamma \\ -3 \\ -3 \\ -3 \\ -2 \end{array} $	$ \begin{array}{c} \gamma \\ +1 \\ +1 \\ 0 \\ 0 \end{array} $	γ +2 +1 0 0	γ +1 +1 +1 -1	$\gamma +1.5 +1.2 +1.55$	$ \begin{array}{c} \gamma \\ -1.0 \\ 8 \\ 5 \\ .0 \end{array} $	$ \begin{array}{c} \gamma \\ -4.5 \\ -3.2 \\ -1.5 \\ .0 \end{array} $	_:
5 6 7 8	$ \begin{array}{r} -4 \\ -4 \\ -6 \\ -3 \end{array} $	$ \begin{array}{r} -1 \\ -1 \\ -2 \\ -2 \end{array} $	$^{+1}_{+1}_{+1}_{0}$	$0 \\ +1 \\ +2 \\ +3$	$ \begin{array}{r} -2 \\ -2 \\ +1 \\ +4 \end{array} $	$ \begin{array}{r} -2 \\ -3 \\ -3 \\ -3 \end{array} $	$0 \\ -1 \\ 0 \\ +2$	+2 +3 +3 +5	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ +1 \end{array} $	$ \begin{array}{r} -1 \\ -2 \\ -2 \\ -1 \end{array} $	$\begin{array}{c} 0 \\ -1 \\ -2 \\ -2 \end{array}$	$-1 \\ -2 \\ -4 \\ -6$	$ \begin{array}{r r} -1.5 \\ -2.0 \\ -3.5 \\ -3.2 \end{array} $	5 2 .0 +.8	7.2	-1. -1. -1.
9 0 1 2	$ \begin{array}{r} -2 \\ -1 \\ +2 \\ +4 \end{array} $	$-1 \\ 0 \\ +2 \\ +1$	$^{+2}_{+2}_{+4}_{+7}$	$^{+3}_{+4}_{+7}_{+16}$	$^{+4}_{+7}$ $^{+15}_{+26}$	$^{-2}_{+2}$ $^{+10}$ $^{+20}$	$^{+4}_{+7}_{+13}_{+21}$	$^{+8}_{+12}_{+22}_{+31}$	$^{+1}_{+4}$ $^{+12}$ $^{+24}$	$^{0}_{+2}$ $^{+6}$ $^{+14}$	$-1 \\ 0 \\ +1 \\ +4$	-5 -4 -4 -4	$ \begin{array}{c c} -2.2 \\ -1.2 \\ +.2 \\ +1.2 \end{array} $	+7.2	+3.5 $+7.0$ $+15.0$ $+24.5$	+. +2. +7. +13.
3 4 5 6	$^{+16}_{+22}_{+14}_{+2}$	+6 +12 +9 +4	+11 +13 +11 +6	$^{+22}_{+24}_{+18}_{+9}$	$^{+26}_{+18}_{+8}_{-3}$	+23 +17 +11 +7	+19 +13 +6 +1	$^{+24}_{-6}_{-6}$	$^{+27}_{+22}_{+13}_{-1}$	$^{+22}_{+20}_{+12}_{+4}$	$^{+12}_{+15}_{+12}_{+4}$	$^{+4}_{+15}_{+20}_{+18}$	+9.5 +16.0 +13.8 +7.0	+20.5 $+19.8$ $+13.5$ $+4.5$	$+23.0 \\ +13.5 \\ +4.8 \\ -2.0$	+17. +16. +10. +3
7 8 9	-10 -12 -10 -5	-6 -8 -7 -6	$ \begin{array}{r} -2 \\ -11 \\ -16 \\ -15 \end{array} $	-8 -19 -23 -22	-12 -18 -20 -15	$^{+2}_{-4}$ $^{-10}$ $^{-12}$	-3 -10 -15 -15	-18 -23 -21 -17	-11 -17 -18 -13	-6 -14 -18 -16	-2 -7 -11 -13	+11 +1 -11 -14	-1.8 -6.5 -9.8 -9.5	-15.2 -18.8	-13.8	$-11 \\ -15$
21 	$ \begin{array}{c c} -1 \\ -2 \\ -2 \\ 0 \end{array} $	-5 -2 0 0	-11 -6 -4 0	-15 -9 -5 -4	-9 -6 -5 -4	-12 -9 -8 -7	-12 -8 -5 -6	$ \begin{array}{r} -11 \\ -6 \\ -3 \\ -1 \end{array} $	-11 -9 -7 -4	$ \begin{array}{r} -13 \\ -8 \\ -2 \\ 0 \end{array} $	-9 -5 -1 +1	-10 -5 -1 -1	$ \begin{array}{c c} -6.2 \\ -3.5 \\ -1.0 \\ 0 \end{array} $	-8.0 -4.5	-5.2	-3
							19	922		and the second second					<u> </u>	··
1 2 34	$\begin{vmatrix} +3 \\ +4 \\ +2 \\ +1 \end{vmatrix}$	$\begin{array}{ c c c } +2 \\ +2 \\ 0 \\ 0 \end{array}$	$ \begin{array}{r} -4 \\ -3 \\ -2 \\ -2 \end{array} $	-4 -3 -1 -1	$ \begin{array}{r} -5 \\ -4 \\ -1 \\ -2 \end{array} $	$ \begin{array}{r} -4 \\ -2 \\ -2 \\ -2 \\ -2 \end{array} $	-3 -1 -1 -1	-4 -2 -2 +1	$^{+2}_{+2}_{+2}$	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -2 \\ \end{array} $	$+2 \\ +3 \\ +1 \\ 0$	$^{+1}_{+3}_{+2}$	+2.0 +3.0 +1.2 +.2	l –. 8	$ \begin{array}{r r} -2.2 \\ -1.5 \end{array} $	=
5 6 7 8	1 1	1	-3 -1 -1 -2	$\begin{array}{c} 0 \\ 0 \\ +2 \\ +2 \end{array}$	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ -1 \end{array} $	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ -1 \end{array} $	$ \begin{array}{r} -2 \\ -2 \\ -1 \\ +1 \end{array} $	$^{+1}_{+1}_{0}_{+3}$	$^{+2}_{+1}_{+2}_{+3}$	$-1 \\ -1 \\ 0 \\ 0$		$ \begin{array}{r} -1 \\ -2 \\ -2 \\ -2 \end{array} $	$\begin{vmatrix} .0 \\ -1.5 \\ -2.2 \\ -2.2 \end{vmatrix}$	2	I 8	=
9 0 1 2		1 +3	$-1 \\ -1 \\ +2 \\ +6$	$^{+2}_{+2}_{+5}_{+9}$	$^{+1}_{+3}$ $^{+10}$ $^{+17}$	$^{+3}_{+5}_{+12}_{+20}$	$^{+3}_{+5}$ $^{+11}_{+25}$	+5 +9 +18 +25	+6 +8 +17 +25	$^{+1}_{+3}_{+7}$	$-1 \\ -1 \\ -1 \\ 0$	$-2 \\ 0 \\ +1 \\ +1$	+.5 +.5	+3.0	+3.0 +5.5 +12.8 +21.8	$\begin{vmatrix} +2 \\ +7 \end{vmatrix}$
3 4 5 6		$+1 \\ +2 \\ -1 \\ -4$		+11 +12 +17 +16	+19 +17 +13 +4	$^{+23}_{+20}_{+13}$	$^{+27}_{+18}$ $^{+8}_{-2}$	+20 +7 -3 -7	+26 +18 +4 -9	$^{+14}_{+11}$ $^{+6}_{-2}$	+9 +12 +9 +4	+8 +11 +9 +4	+7. 2 +11. 2 +9. 8 +4. 5	+14.8 +13.0 +10.0 +3.8	+7.8	91 +Y
7 8 9 0		-2 0		+8 -4 -15 -19	$ \begin{array}{r} -2 \\ -9 \\ -14 \\ -14 \end{array} $	-5 -13 -18 -15	-10 -15 -18 -18	-12 -15 -16 -12	-19 -24 -23 -19	-6 -5 -6 -6	-6 -8	-3 -10 -9 -8	-2. 2 -8. 0 -9. 2	-7.5 -11.5	-7.2 -13.0 -16.5 -14.8	$ -9 \\ -12$
2 2 3 4	-8 -3	-1 -2	-7 -8 -9	-17 -10 -6	-11 -9 -6	-13 -8 -6	4	-7 -3 -3 -4	-13 -9 -3	-5 -6 -5	$-4 \\ -1$	-4 0 0	-2.0 -1.0	-10. 5 -8. 2 -5. 8	-6.8	5 -5 3 -8

Diurnal variation of Z

[International quiet days corrected for noncyclic change. Greenwich mean civil time]

1921

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Gro	oup me	ans	Year
11041	I		13			II	[n		1		I	п	III	
1 2 3 4	$\gamma \\ +1 \\ +1 \\ 0 \\ +2$	γ +4 +3 +3 +3	γ +3 +3 +4 +5	$ \begin{array}{c} \gamma \\ +2 \\ +2 \\ +1 \\ +2 \end{array} $	$\begin{array}{c} \gamma \\ 0 \\ 0 \\ -1 \\ -1 \end{array}$	$ \begin{array}{c} \gamma \\ -1 \\ -1 \\ 0 \\ 0 \end{array} $	γ +2 +3 +3 0	$ \begin{array}{c} \gamma \\ +1 \\ +2 \\ +3 \\ +4 \end{array} $	$ \begin{array}{c} \gamma \\ +2 \\ +3 \\ +4 \\ +4 \end{array} $	$\gamma \\ +4 \\ +4 \\ +4 \\ +3$	$\gamma \\ +4 \\ +4 \\ +3 \\ +2$	$ \begin{array}{c} \gamma \\ +1 \\ +1 \\ +1 \\ +2 \end{array} $	$\gamma +2.5 +2.2 +1.8 +2.2$	$ \begin{array}{c} \gamma \\ +2.8 \\ +3.0 \\ +3.2 \\ +3.5 \end{array} $	$\gamma +0.5 +1.0 +1.2 +.8$	$\gamma + 1.9 + 2.1 + 2.1 + 2.2$
5 6 7 8	+2 +5 +5 +6	$^{+2}_{+2}_{+3}_{+4}$	+6 +7 +8 +8	+2 +3 +3 +3	$-1 \\ 0 \\ -1 \\ 0$	$^{+1}_{+1}_{0}_{0}$	0 +1 +1 +1	+3 +3 +3 +3	+4 +4 +5 +5	+2 +3 +5 +5	0 0 0 0	$^{+2}_{+3}_{+3}_{+4}$	+1.5 +2.5 +2.8 +3.5	+3.5 +4.2 +5.2 +5.2	+.8 +1.2 +.8 +.8	+1.9 $+2.7$ $+2.9$ $+3.2$
9 10 11 12	+4 +5 +4 +2	+3 +4 +4 +5	+8 +7 +4 0	+4 +3 +2 -1	$^{+1}_{\begin{subarray}{c}0\\-2\end{subarray}}$	$ \begin{array}{r} -2 \\ -2 \\ -2 \\ -3 \end{array} $	+1 +1 +1 -1	$^{+2}_{+2}$ $^{0}_{-5}$	+5 +4 +1 -4	$^{+4}_{+3}$	$^{+1}_{+2}_{+3}$	$^{+4}_{+2}$ $^{+3}_{+3}$	+3. 0 +3. 2 +3. 5 +3. 0	+5.2 $+4.5$ $+2.5$ -1.2	+.5 +.2 2 -2.8	+2.9 +2.7 +1.9 3
13 14 15 16	$ \begin{array}{r} -1 \\ -5 \\ -8 \\ -6 \end{array} $	$^{+2}_{0}_{-2}$	-6 -9 -11 -11	-4 -7 -9 -8	-4 -5 -3 +1	$^{-3}_{\begin{subarray}{c}0\\+2\\+3\end{subarray}}$	$ \begin{array}{r} -5 \\ -4 \\ -3 \\ -4 \end{array} $	$ \begin{array}{r} -7 \\ -4 \\ -2 \\ -1 \end{array} $	-8 -8 -8 -7	-5 -7 -6 -4	-2 -3 -4 -5	+1 -1 -4 -4	.0 -2.2 -4.5 -5.0	-5.8 -7.8 -8.5 -7.5	-4.8 -3.2 -1.5 2	-3.5 -4.4 -4.8 -4.2
17	-4 -4 -4 -4	-8 -9 -10 -8	-10 -8 -4 -4	$-4 \\ -1 \\ +1 \\ +2$	0 +3 +5 +4	+3 +1 +3 +2	$ \begin{array}{r} -3 \\ -3 \\ -2 \\ 0 \end{array} $	$-1 \\ 0 \\ 0 \\ -1$	$ \begin{array}{r} -5 \\ -2 \\ -2 \\ -2 \end{array} $	$ \begin{array}{r} -4 \\ -5 \\ -6 \\ -5 \end{array} $	-5 -5 -4 -1	-6 -5 -4 -3	-5.8 -5.8 -5.5 -4.0	$ \begin{array}{r} -5.8 \\ -4.0 \\ -2.8 \\ -2.2 \end{array} $	2 +. 2 +1. 5 +1. 2	-3. 9 -3. 2 -2. 2 -1. 7
21 22 23 24	$-1 \\ -1 \\ 0 \\ +1$	-5 -2 +3 +4	$ \begin{array}{r} -2 \\ -1 \\ +1 \\ +2 \end{array} $	$^{+1}_{0}_{+1}$	$^{+2}_{0}_{+1}$	0 + 1 - 1 - 1 - 1	$^{+1}_{+2}_{+3}_{+3}$	$ \begin{array}{r} -2 \\ -1 \\ -1 \\ 0 \end{array} $	$^{+1}_{+2}_{+2}_{+1}$	$^{-2}_{\begin{subarray}{c}0\\+1\\+2\end{subarray}}$	$^{0}_{+2}^{+2}_{+2}$	$0 \\ -1 \\ -1 \\ -1 \\ -1$	$ \begin{array}{r} -1.5 \\5 \\ +1.0 \\ +2.0 \end{array} $	$ \begin{array}{c}5 \\ +.2 \\ +1.2 \\ +1.5 \end{array} $	+. 2 +. 5 +. 5 +. 5	6 +. 1 +. 9 +1. 3

1 2 3 4	+2 +4 +4 +5	$^{+2}_{+1}_{+1}$	$^{+2}_{+3}_{+4}_{+5}$	$ \begin{array}{c} -2 \\ -2 \\ 0 \\ +1 \end{array} $	$^{0}_{+2}$ $^{+1}_{+2}$	$^{+1}_{+2}_{-2}_{-3}$	+2 0 0 0	$0 \\ 0 \\ +1 \\ +2$	$^{+4}_{+4}_{+4}$	+1 +1 +1 +1	$^{+2}_{+1}_{+2}_{+1}$	$^{+4}_{+3}_{+3}_{+2}$	$\begin{array}{c c} +2.5 \\ +2.2 \\ +2.5 \\ +2.2 \end{array}$	$+1.2 \\ +1.5 \\ +2.2 \\ +2.2$	+0.8 +1.0 .0 +.2	$+1.5 \\ +1.6 \\ +1.6 \\ +1.6$
5 6 7 8	+5 +5 +4 +4	$^{+2}_{+3}_{+4}_{+6}$	+5 +6 +6 +6	$^{+2}_{+2}_{+2}$	$^{+1}_{-1}_{-2}_{-2}$	-3 -4 -4 -2	+1 0 0 0	$^{+3}_{+3}_{+4}_{+2}$	$^{+2}_{+2}$ $^{+3}_{+3}$	$^{+2}_{+2}_{+4}_{+5}$	$^{+1}_{+2}_{+2}$	$^{+2}_{+1}_{+2}_{+2}$	$\begin{vmatrix} +2.5 \\ +2.8 \\ +3.0 \\ +3.5 \end{vmatrix}$	$ \begin{array}{r} +2.8 \\ +3.0 \\ +3.8 \\ +4.0 \end{array} $	+.5 5 5 5	$^{+1.9}_{+1.8}$ $^{+2.1}_{+2.3}$
9 10 11 12	$^{+4}_{+3}$ $^{+2}_{+2}$	+6 +5 +5 +3	+5 +3 +1 -3	$^{+1}_{0}_{-2}_{-3}$	$ \begin{array}{r} -3 \\ -2 \\ -1 \\ 0 \end{array} $	$-1 \\ 0 \\ +1 \\ 0$	+3 +3 +3 0	$^{+1}_{+1}_{0}_{-4}$	+4 +5 +4 +1	$^{+6}_{+6}_{+5}$	+3 +4 +4 +3	+4 +4 +4 +4	+4. 2 +4. 0 +3. 8 +3. 0	+4. 0 +3. 5 +2. 0 -1. 5	.0 +.5 +.8 -1.0	$^{+2.8}_{+2.7}$ $^{+2.2}_{+.2}$
13 14 15 16	0 -3 -8 -10	$ \begin{array}{r} -2 \\ -4 \\ -7 \\ -7 \end{array} $	-6 -9 -7 -7	-3 -1 +1 0	$^{+2}_{+3}_{+4}_{+2}$	$ \begin{array}{r} -3 \\ -2 \\ -2 \\ 0 \end{array} $	-2 -1 -1 -3	-6 -5 -3 -4	-3 -3 -5 -7	-4 -4 -4 -4	$ \begin{array}{r} -1 \\ -4 \\ -6 \\ -3 \end{array} $	$^{+2}_{-3}$ $^{-7}$	-, 2 -3. 5 -7. 0 -6. 8	-4. 0 -4. 2 -3. 8 -4. 5	$ \begin{array}{r} -2.2 \\ -1.2 \\5 \\ -1.2 \end{array} $	$ \begin{array}{r} -2.2 \\ -3.0 \\ -3.8 \\ -4.2 \end{array} $
17 18 19 20	-9 -5 -4 -4	-6 -7 -7 -5	-8 -7 -5 -3	-1 0 $+3$ $+2$	$-2 \\ -2 \\ 0 \\ +1$	+1 +5 +5 +4	$ \begin{array}{r} -4 \\ -3 \\ -1 \\ 0 \end{array} $	$ \begin{array}{r} -3 \\ -1 \\ +1 \\ +2 \end{array} $	$ \begin{array}{r} -7 \\ -6 \\ -6 \\ -5 \end{array} $	-5 -6 -6 -4	-5 -5 -4 -3	-7 -8 -6 -4	-6.8 -6.2 -5.2 -4.0	-5. 2 -4. 8 -3. 5 -2. 5	$ \begin{array}{r} -2.0 \\2 \\ +1.2 \\ +1.8 \end{array} $	$ \begin{array}{r} -4.7 \\ -3.8 \\ -2.5 \\ -1.6 \end{array} $
21	$ \begin{array}{r} -3 \\ -1 \\ 0 \\ +2 \end{array} $	$ \begin{array}{r} -2 \\ +2 \\ +4 \\ +3 \end{array} $	$^{0}_{+2}$ $^{+4}$ $^{+3}$	+1 -1 -2 -2	$ \begin{array}{c} 0 \\ -1 \\ -1 \\ 0 \end{array} $	+4 +3 +2 +2	$^{+1}_{+1}_{+2}_{+2}$	+3 +1 +1 0	$ \begin{array}{r} -3 \\ +1 \\ +2 \\ +3 \end{array} $	$0 \\ +1 \\ +4 \\ +2$	$0 \\ 0 \\ +1 \\ +2$	0 +1 +2 +3	$ \begin{array}{c c} -1.2 \\ +.5 \\ +1.8 \\ +2.5 \end{array} $	5 +.8 +2.0 +1.5	+2.0 +1.0 +1.0 +1.0	+.1 +.8 +1.6 +1.7

Summary of monthly means

[Ten selected quiet days]

1921

Month	D	H	I	X	Y	Z	\boldsymbol{F}
January February March April June July August August	0 / -3 49.9 50.6 51.3 51.5 52.2 52.6 53.4 54.0	7 27784 792 789 781 757 757 758 747	o , , 51 25. 5 25. 4 25. 9 26. 5 28. 8 29. 1 29. 0 30. 1	7 27722 729 726 718 694 694 694 683	7 -1857 1863 1868 1869 1873 1877 1883 1887	γ 34835 844 850 852 871 877 876 885	7 44558 577 577 576 569 574 574
September October November December	54. 8 55. 7 56. 3 56. 8 -3 53. 3	745 741 743 737 27761	30. 5 30. 6 29. 9 30. 0 51 28. 4	680 676 677 671 27697	1894 1901 1905 1909 —1882	889 887 875 870 34868	570 573 560 550 4456

1922

January	-3 57.1	27726	51 30.6	27660	-1911	34870	44550
February	58. 1	721	31.0	655	1918	871	547
March	58. 7	713	31.5	646	1923	871	542
April	59. 5	711	31.9	644	1929	877	545
May	60.0	707	32, 5	639	1933	885	549
June	60. 5	703	33. 0	636	1937	889	550
July	61. 1	694	33. 6	626	1941	891	546
August	61. 6	682	34. 2	614	1944	888	537
September	62. 5	673	34.3	605	1950	879	524
October	63. 0	672	34.3	603	1954	878	523
November	63.8	667	34, 8	598	1960	883	523
December	64.5	666	35.0	596	1966	884	524
Year	-3 60.9	27695	51 33, 1	27627	-1939	34880	44538

Summary of annual means

Year	D	H	I	X	Y	Z	\boldsymbol{F}
	o ,	γ	· /	γ	γ	γ	γ
1903	-1 23.2	29336	49 10.0	29327	— 709	33946	44865
1904	31.0	266	15.0	256	775	965	834
1905	38, 3	221	17.0	209	835	952	795
1906	45.9	173	22, 1	159	899	33999	799
1907	1 53.7	106	29.3	090	962	34066	806
1908	2 02.5	29021	36. 3	29003	1034	106	782
1909	11.7	28927	44.1	28905	1107	151	755
1910	20.6	834	49 52.0	810	1179	202	734
1911	29.9	739	50 00.4	712	1253	258	716
1912	39. 0	638	09.0	607	1325	312	692
1913	2 49, 6	522	21. 2	487	1407	421	702
1914	3 00.4	401	33. 9	362	1489	533	712
1915	10. 1	279	45.9	236	1563	630	710
1916	19, 2	158	50 55.5	111	1630	680	672
1917	27.0	28066	51 02, 7	28015	1689	714	640
1918	34.0	27985	10.9	27931	1741	783	644
1919	39. 9	905	17. 7	848	1784	825	626
1920	46. 1	827	22. 7	767	1829	832	582
1921	3 53, 3	761	28.4	697	1882	868	569
1922	-400.9	695	33, 1	627	-1939	880	538

PLUS TABULAR QUANTITIES, expressed in tenths of minutes 3º WEST

† Five international quiet days.

least disturbed days.

24.

2 2

28 28 28

4 23

47 34 22 38

DECLINATION.

SOWEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

Range.

2 7

S* WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutee.

	Range.		61	48	32	37	36	31	51	4.7	8 2	69	8 7	85	65	8 8	62	4 1	46	39	33	55	95	6.2	5 4	80	50	8 2	82	58	48	33	4 4	57	4.7		
	nimum.	Ļ	7 472	2 483	2 499	9 485	8 495	0 492	0 491	0 481	5 47.3	0 481	0 462	3 457	4 4 6 9	2 483	8 492	2 491	4 492	4 493	0 501	8 496	3 462	2 478	2 488	7 470	9 496	н	8 472	4 468	2 491	4 4 9 1	0 491				
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	j		533	531	531	522	531	523	548	528	555	550	549	545	534	565	554	532	538	532	534	551	557	540	545	550	546	544	554	526	539	524	535				
	Maximum		6 22	00 9	5 00	4 48	4 58	9 00	5 50	5 6	4 58	4 00	5 38		5 56	5 00		6 4 5	9	5 00	5 18	4 18	3 21	4 36	4 5 4	4 3 4	4 52	4 5 4	4 48	8 20	6 4 4	3 56	5 19				
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SOWEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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DECLINATION.
S*REST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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DECLINATION.

\$ WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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DECLINATIÓN.

5º #EST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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DECLINATION.
S' WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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† Five international quiet days. * Ten least disturbed days.

DECLINATION.

\$ NEST PLUS TABULAR QUANTITIES, expressed in teachs of minutes.

		NOVEMBER		1361			The ta	tabular	values	are	average	values	for	successive	e periods	40	one hour		beginning a	at mid	midnight (60 th n	meridian	n mean	time.						
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SPREST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gan....as.

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HORIZONTAL INTENSITY. 27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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 IORIZONTAL INTENSITY.

PLUS TABULAR QUANTITIES, expressed in gammas

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Five international quiet days.

Ten least disturbed days.

HORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in gammas

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HORIZONTAL INTENSITY.

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HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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Ten least disturbed days.

HORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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27500 PLUS TABULAR QUANTITIES, expressed in gammas

HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

The tabular values and average values for successive periods of one hour beginning at midnight 60 th meridian mean time.

SEPTEMBER 1921

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HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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HORIZONTAL INTENSITY.

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Five international quiet days

VERTICAL INTENSITY.

54500 PLUS TABULAR QUANTITIES, expressed in gammas.

23

54500 PLUS TABULAR QUANTITIES, expressed in gammas. VERTICAL INTENSITY.

values for successive neriods of one hour beginning at midnight 60 th meridian mean time.

		FEBRUARY	ARY 1921	8		-	The tal	tabular v	values	are ave	average v	values for		successive p	periods	or one	hour be	beginning	ä	midnight	9	th mer	meridian m	mean tir	time.					1	
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VERTIGAL INTENSITY.

34500 PLUS TABULAR QUANTITIES, expressed in genumes.
The tabular values are average values for successive periods of one hour beginning at midflight 60 th meridian mean time.

Range.		3 1 4	23	2 1.9	5	15	18	2 2 2	31	255	3 27	31	31	19	31	26	3 20	2 2 2	19	5 23	6 21	7 40	27	8 21	25	7 31	34	9 28	92	3 2	15	3 22	24	8	
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21	r	355	355	352	352	355	356	350	355	344	355	348	350	351	356	356	357	350	346	349	349	344	359	351	356	368	362	355	353	360	35	354		40	351
82		354	353	350	350	353	357	352	355	339	352	348	348	348	351	356	353	347	346	348	350	346	362	351	356	362	349	354	350	354	354	354	352	5	350
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34500 PLUS TABULAR QUANTITIES, expressed in gammas.

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· Ten least disturbed days.

VERTICAL INTENSITY.

34500 PLUS TABULAR QUANTITIES, expressed in generate.

		OCTOBER		1321			The te	tabular	values	are	average	values	for suc	successive	periods	s of one	e hour	r beginning	ning at	midnight		80 th	meridian	mean	time.							1
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VEKTICAL INTENSITY.

\$4500 PLUS TABULAR QUANTITIES, expressed in genmas.

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† Five international quiet days. Ten least disturbed days. 14 32

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VERTICAL INTENSITY

PLUS TABULAR QUANTITIES, expressed in gammas

21.

Five international quiet days.

least

Meant

 DECLINATION

SO WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

So WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes. **DECLINATION**

60 th meridian mean time.

The tabular values are average values for successive periods of one hour beginning at midnight

SOWEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time

DECLINATION.

3º WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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DECLINATION..

S' WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time.

		MAY	1922	ę,		•	The tabular		values	are ave	average v	values f	for succ	successive 1	periods	of one	hour	beginning	ŧ	midnight	8	th mer	meridian n	mean tir	time.						
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3º WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time

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The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time. 3º WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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5° WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time. 36 WEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

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f Five international quiet days.

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3º MEST PLUS TABULAR QUANTITIES, expressed in tenths of minutes.

The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time.

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HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

	3	JANUARY	7Y 1922			The	e tabular	lar values	ues are	average	re values	ş	successive	re periods	7	one hour	r beginning	ning at	midnight	ght 60	Ŧ	meridian	mean	time.						
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HORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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HORIZONTAL INTENSITY.

PLUS TABULAR QUANTITIES, expressed in gammas

international quiet days H.

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EORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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HORIZONTAL INTENSITY.

PLUS TABULAR QUANTITIES, expressed in gammas.

f Five international quiet days.

HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gemmas.

188

185

least disturbed days.

Mean* Mean

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HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

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PLUS TABULAR QUANTITIES, expressed in gammas.

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Mean* Meant Five international quiet days. 19th substituted for 17th,

HORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in gamimas.

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ır begü	17		7	7 178	0 170	0	L	9 136	9 155	6 150	8 142	0 177	8 164	8 171	53	138	16	_			121	na 57)	3 178	162	1.6	16	175	155	148	164	166	15	169	171
one hour	91	L	9 17	1 177	4 170	7 17 (L	3 125	5 149	0 146	3 148	2 180	4 168	3 168	2 68	7 145	1 170				159	9 (157)	1 173	7 164	1 165	3 166	0 178	0 167	3 144	3 166	2 165	2 158	2 170	4 171
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or successive p	13	H	5	1 18	1 17	1 8	L	1 13	5 1 5	1 16	2 16	9 1 8	8 17	8 15	3 7	0 14	3 17			4 17	06 19	316	3 1 6	5 17	2 18	1 18	4 18	1 18	7 15	5 17	9 47	9 1 6	0 18	9 18
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SEPTEMBER 1922	2		178	180 179	178	178	T	187	ı,	176	170	173	172	185	157	136	159	169		169	176	171	173	174 177	172	1631	173 174	179	162	168		171 172	172	174 17
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160 153

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158 157 143

156 156 153

HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gammas.

1-		OCTOBER	ER 1922	<u>,</u> [-	ļ.		ي ا و	bular	The tabular values are	are av	average v	values for	FLUS 7	Cessive 13	periods	s of on	PLUS TABULAR QUANTITLES, expressed in gamman. for successive periods of one hour beginning at 12 18 15 18 17 18	begin	ammas aing a	midnight	ight 8	St th	eridian 22	meridian mean	time.	Mean	. Ma	i	L	員
	ii.	-	,		,†	•	·	\cdot	·	·	1		•		:				1		Ī		1	1	I	I	-	-	ŀ	ŀ
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9	-1	121	154	8	158		165	163	162	149	147	141		139		133	134	147	149	144		143	15	159	158	150	S	4 169	7	
-	н	168	166	164	159	161	156	159	155	137	139	139 144	149	151	148		147 145	148		157	147	157	153		158	154	0	50 171	8	25
	н	154	154	159		159	159	160	159 160 157			139 186	161	163	1.60	1.5	148	151	151 15	156	151	155	155	159	167	159 167 154	21 16	0 110	0 17	50
6	0	168	168	166	167	169	170	167	167 165	160			154	154	150	150	150	148	149	149 154	150	154	155	159	167		123	35 172	2 17	5 2
91	0	168	168	168	169	172	172	171	168	163	155	153	158	158		153	154	152	155	155	160	164	167	169	162	162	4 42	2 173	3 16	53
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=	0	172	171	171	174	180	177	174	174 174	162	156	158	161	163	151	144	144 146	156	163	168	168	168	166	165	167	165	4	55 180	0 14	52
2	0	166	168	171	173	177 175	175	175	176	179	178	178	177	177 175	168	160	151	163	171	175	177	177 177	176	177	175	172	8	28 18	0 15	23
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82	0	175	176		176	178	178	175	175 172	167		167	172	171	170	168	168 165	165	167	167		172	173	174	17	4 171				
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25	0	170	175	173	173	175	176	180	180 181	175	172	172	172	171	165	152	150	155	158	158 162	164	165	164	164	164	168	~	8 18	3 15	7
56	0		5	166	166	167	167	168	168	167		166	164	162	164	165	165	167	169	168		171	171	173	172	167	22.24	42 174		S
27	0		173	175		177	178	177	174	173	172	166	172	166		168	168	167	168	167 168 169		169 169	169	1,69	171	171	6	47 178		н
.88		171	171	172	171	173	173	175	177	178	178	179	181	179	173	169	169 168	165	163	167	170	173	172	174	176	173	11 39	9 181	1 17	19
59	0	175	175	176	179	179	178	177	177 177	181	184	183	183 182	179	174	169	169 165	165	166	167	168	169	169	168	169	174	101	18 184	4 16	10
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Mean		168	169	169	170	173	173	173	172	169	169	168	168	167	163	159	157	158	161	164	164		166	167	167	167				
Mean*		170	171	171	171	173	174	174	173	173	173	174	176	176	174	170	167	168	170	172		17	172	173	173	172				
Meant		171	172 171 170	171		172	174	174	174 174 173	174	174	176	178	178	175	172	169	172	173	175	171 174	172	173	172	171	173				

† Five international quiet days. "fen least disturbed days.

HORIZONTAL INTENSITY.

27500 PLUS TABULAR QUANTITIES, expressed in gamman.

The tabular values are average values for successive periods of one hour beginning at midnight 🛭 th meridian mean time

OVEMBER

HORIZONTAL INTENSITY.
27500 PLUS TABULAR QUANTITIES, expressed in general

		DECEMBER		1922			The ta	tabular	values	are ave	average va	values for	r successive		periods	of one	hour	beginning	ä	midnight	8 th	meridian	lian mean	an time.				
Day.	Char.	-	2	3	7	29	9	2	8	6	10	11	12	13	14	15	91	17 1	18	19 20	12 0	ឌ	83	73	Mean	Maximum.	Minkaum.	Range.
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_	0	m		160		161	162	166	164	170	169	160	1561	162 1	58	1441	142 1	49 1	541	58 16	51 16	0 15	4 1 4	9 152	158	8 56 172	14 53 139	23
64	0	н	156	160		160	160	162	169	171	171	164	1681	168 1	168 1	1641	1601	56 1	591	60 16	50 15	9 15	9 15	8 159	162	8 10 173	0 44 149	3.4
3.	0	159		160		161	163	167	170	167	159	159	1581	158 1	154 1	154 1	155 1	54 1	56 1	57 15	37 15	9 16	1 16	2 161	1160	7 50 171	14 15 152	19
*	0	-	162	163		162	164	168	170	170	164	163	1661	170 1	170 1	168 1	166 1	63 1	61 1	63 16	54 16	5 16	5 16	7 168		7 55 172	0 4 160	7.5
ю	-	174	183	187	179	181	180	177	187	191	191	187	184	184 1	183 1	176 1	1691	65 1	591	56 14	10 14	2 1 5	3 14	7 145	17	8 25 191	20 00 130	61
9	1	4	15	154			165	163	166	170	170	1681	1721	172 1	1701	1681	1621	57 1	581	61 15	57 15	4 16	1 16	0160	163	12 20 174	0 00 147	27
	0	ч	1 6	162	4	161	163	165	168	170	170	170	1701	175 1	29	172 1	169 1	64 1	6 4 1	65 16	55 16	3 1 8	3 16	4 164	1266	13 30 180	0 3 159	21
8	0		165	165		167	166	168	170	171	168	166	1661	162 1	163 1	158 1	63 1	64 1	6 4 1	62 16	52 16	1 16	3 16	5 165	5 165	8 10 172	14 28 156	16
6	н	S	16	161	н	161	161	163	166	168	170	175	179	180 1	7.9	175 1	72 1	70 1	701	78 17	15 17	2 13	3 17	2 175	5 170	17 56 184	3 10 159	25
10	-	O	158	150	- CZ	162	166	170	179	182	180	182	1751	1741	170 1	167 1	69 1	601	60 1	61 16	51 16	0 15	7 15	6 158	166	10 32 184	2 57 149	35
ı	0	lο	168	168	6	170	172	176	181	185	184	181	1781	1801	76	1761	741	741	721	52 14	11 15	0 15	5 15	7 157	169	49 185	19 29 138	47
12	٥	160	162	164	164	166	168	171	171	168	165	165	167	161	1601	152 1	1461	44	48 1	54 15	57 15	9 15	9 1 5	9 159	160	7. 8 173	16 22 143	30
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ž	-1	174	173	175	174	179	177	173	178	178	177		188	192 1	5 6	183 1	148 1	37 1	581	64 16	54 16	3 15	4 15	7 157	171	12 13 196	15 52 129	67
15	-	150	151	153	0	ω		166	171	17	7 4	175	1761	4		152 1	4	47 1	47 1	48 15	50 15	3 1.5	3 15	3 156	-1	9 58 178	0 32 145	33
16.1	0	159	157	157	154		158	160	166	169	178	183	183	180 1	1721	1621	59 1	57 1	57 1	58 15	59 16	1 16	0 16	1 163	5 164	10 40 183	3 39 154	52
17.	•	161	161	165	165	н	167	167	168	169	168	165 1	1.62	156 1	153 1	151 1	1551	63 1	661	66 16	67 16	5 16	6 1.6	9 168	ч	8 36 170	14 51 151	19
18	۰	170	170	170	170	173	175	177	180	182	179	178 1	183	183 1	1761	174 1	173 1	69 1	1 69	67 16	64 16	3 16	3 16	2 165	5 172	12 00 183	22 14 161	22
10	0	167	169	171	172	174	173	175	177	177	170	167	171	176 1	176 1	174 1	72 1	69 1	67 1	66 16	54 16	3 16	4 16	3 163	н	12 35 177	23 22 162	15
20	0	162	166	171	169	171	172	171	176	179	176	1801	180	177 1	1721	1681	68 1	661	681	67 16	58 17	0 17	2 17	6 176	5 172	10 59 181	1 17 161	90
12	0	9	175	175		173	172	170	173	175	174	174	1751	177 1	177 1	172 1	170 1	67 1	67 1	65 16	61 16	1 16	1 16	1 161	170	13 17 178	20 42 161	17
22	٥	М	7	161	161	163	163	162	165	170	172	167	161	161 1	161 1	165 1	1651	69	69	68 16	66 16	6 16	3 16	4 16	4 165	9 41 173	2 35 161	12
23 *	٥	165		167		168	169	172	176	182	183	4	184	180 1	170 1	168 1	731	73 1	711	70 16	68 17	1 17	2 17	0 168	3 172	ч	0 00 164	21
24	0	0	171	172	173	174	174	174	180	182	176	172	172	1691	99	166 1	169 1	68 1	661	73 17	71 17	0 16	9 16	3 16	4 171	8 6 183	23 21 162	21
32	7	168	168	171	174	172	177	176	181	186	187	183	1661	1661	1541	1541	591	631	631	63 16	5316	1 16	2 16	4 165	5 169	9 55 189	13 34 150	39
38	н	159	170	170		173	168	165	167	167	162	153	151	147 1	146 1	141/1	134 1	4 4 1	47 1	49 15	50 15	3 14	9 14	8 154	126	3 33 181	15 36 133	48
22	0	150		154	156	157	158	158	162	166	9	4	161	166 1	168 1		170 1	66 1	3 1	61 16	50 16	0 16	0 16	1 161	161	14 17 171	44 142	68
88	0	163	161	161	161	164	169	168	173	177	S	7	-	œ		145 1		561	59 1	62 16	5	1 15	7 15	7 160	ન	8 19 177	42 13	39
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31	0	156	157	158	160	167	168	168	165	164	156	148 1	147	1501	1491	148 1	521	541	531	5615	56 15	6 15	7 15	6156	5 157	5 5 169	10 59 146	23
Mean	_	162	163	164	165	166	167	168	172	174	173	1713	1691	1681	651	1621	601	59 16	601	61 16	50 16	0 16	0 16	0 161	1.65			89
Mean*		163	163	164	164	165	166	168	171	173	172	171	1701	1691	65 1	1631	641	6416	641	64 16	4		3 16	4 164	1166			21
Mean		162	162	162	162	163	164	166	169	172	172	172 1	170 1	168 1	164 1	161	1631	631	63	63 16	50 16	0 1 6	0 16	0 161	164			
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VERTICAL INTENSITY.
34500 PLUS TABULAR QUANTITIES, expressed in a

	Range.		21	21		9 2	12					25	5 27	_		88		L		(3	30	2	23	a.	CQ.	4	4 4	74		23	16	Q	25	27	23		
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	Σ	·	19 12	79 13	80 18	7612	212	22 01	9	76 12	85 12	88 11	82 13	7913	19 12	19 12	77 11	82 11	83 11	77 10	80 10	77 10	78 10	6 10	73 10	8 12	0 12	86 11	н	7 1 1 4	6 14	14 13	71 16				
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54500 PLUS TABULAR QUANTITIES, expressed in gammas

54500 PLUS TABULAR QUANTITIES, expressed in gammas.

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PLUS TABULAR QUANTITIES, expressed in

Ten least disturbed days

f Five internstional quiet days.

VERTICAL INTENSITY.

PLUS TABULAR QUANTITIES, expressed in gammas.

\$4500

+ then international aniat dans.

Tan least disturbed days.

34500 PLUS TABULAR QUANTITIES, expressed in gammas.
The tabular values are average values for successive periods of one hour beginning at midnight 60 th meridian mean time.

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The tabular values are average values for successive periods of one hour beginning at midnight 🔞 th meridian mean time. 34500 PLUS TABULAR QUANTITIES, expressed in gammas.

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34500 PLUS TABULAR QUANTITIES, expressed in gammas.

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tabular values are average values for successive periods of one hour beginning at midnight PLUS TABULAR QUANTITIES, expressed in gammas

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CTOBER

60 th meridian mean time.

| Five international quiet days

least

54500 PLUS TABULAR QUANTITIES, expressed in gammat.

60 th meridian mean time. The tabular values are average values for successive periods of one hour beginning at midnight

YOVEMBER

Five international quiet days.

Ten least disturbed days.

VERTICAL INTENSITY.

S4500 PLUS TABULAR QUANTITIES, expressed in gammes.

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15373—25†——7

EARTHQUAKES

A Bosch-Omori seismograph has been in operation since September, 1903. It consists of two horizontal pendulums, one recording north-south motion (N) and the other recording east-west motion (E). In the following tables the times are Greenwich mean time counted from midnight.

Period of pendulums: N, 19 sec.; E, 17 sec. Multiplication, 10. Steady mass, 10 to 12 kg.

Register of earthquakes

Number	Date	Compo- nent	Р	s	L	М	С	F	Maximum amplitude
1	1921 Feb. 4 Feb. 27 Mar. 26 Mar. 28 Apr. 14 May 22 Sept. 11 Oct. 20 Oct. 30 Nov. 11 Nov. 13 Dec. 18	ENENENENENENENENEENENE	h. m. s. 8 28 20 	h. m. s. 8 32 30 19 18 00 	h. m. s. 8 34 46 19 18 55 19 21 10 22 45 60 8 00 045 17 58 25 18 23 39 17 58 25 18 23 39 18 23 38 -4 59 20 6 19 18 9 49 33 19 58 16 8 48 42 8 48 54	h. m. s. 8 36 10 19 20 22 19 21 40 22 46 15 8 02 30 8 05 29 17 58 27 17 58 37 18 24 21 13 24 04 -5 01 00 6 19 33 6 19 31 9 49 39 	h. m. 8 43 8 44 	h. m. 9 18 9 02 19 25 19 29 22 53 22 51 18 30 18 30 18 30 18 30 6 05 5 46 6 36 6 36 6 36 6 39 9 51 9 51 9 90 9 60 16 19	mm. 1.4 2.7 2.2 2.4 8.8 2.5 33.0 4.4 3.5 1.0
13	Dec. 22	N E N	15 33 50 20 43 43 20 43 32	15 37 25	20 44 23 20 44 23	15 37 28 20 44 44 20 44 56	20 46 20 45	16 02 20 50 20 50	5. 0 1. 0 . 6
14	Jan. 3 Jan. 6 Jan. 9 Jan. 17 Jan. 31 Feb. 16 Mar. 23 Mar. 26 Mar. 28 Apr. 2 May 2 May 11 June 12 June 16	ENENENENENENENENENENENE	1 12 35 5 13 59 5 13 59 5 13 59 3 54 57 13 27 08 3 19 32 3 19 32 4 52 50 4 52 50 4 52 50 23 37 15 23 37 15 4 05 16 6 47 38 6 47 38 6 47 38	5 17 40 	1 12 57 1 12 41 14 35 04 14 34 33 5 5 18 27 5 19 02 3 57 34 3 57 34 13 46 24 13 44 53 3 27 32 4 53 36 5 52 18 23 38 13 23 38 31 20 34 4 14 31 20 03 41 20 06 03 20 24 30 20 24 30 20 25 50 6 50 67 6 50 67 5 50 18 20 20 20 20 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 20 30 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 3	1 13 13 11 14 37 37 14 37 37 14 37 34 45 19 22 3 58 41 13 58 49 13 47 46 13 40 47 53 40 47 53 18 4 53 12 20 24 34 20 24 34 20 24 34 20 24 34 20 24 34 20 24 34 20 24 34 20 25 15 47 20 10 22	5 23 5 23 4 05 13 50 13 50 13 53 	1 27 1 19 14 56 14 49 6 23 5 55 4 37 14 26 14 23 3 50 3 40 4 56 4 56 5 58 23 47 4 17 20 25 20 12 5 27 5 27 5 27 5 27 5 27 5 27 5 27 5 2	.8 .3 .5 .5 .2 .2 .1.4 .12.8 .6.7 .6.2 .0 .4 .1.0 .2 .2 .2
29	Sept. 1 Oct. 5	N N E N	23 22 13 23 22 17		20 10 17 20 32 22	20 10 22 20 10 22 20 34 32 23 22 17 23 22 25	23 23 23 24	20 13 20 41 23 28 23 28	.9 .7 .2 6.4 6.8

Number	Date	Compo- nent	P	S	L	М	C	F	Maximum amplitude
31	Oct. 11	E	14 56 47	15 02 13 15 02 06	15 06 50 15 08 58	15 05 00 15 11 20		15 26 15 20	.4
32	Nov. 4	E	14 56 41	15 02 00	5 38 17 5 37 57	15 11 20		5 41 5 42	.1
33	Nov. 11	EZEZEZEZE	4 41 11 4 41 05	4 48 12 4 47 50	4 56 28 4 58 15	5 02 20 5 04	5 03 5 17	8 00 7 40	32. 0 80. 0
34	Nov. 19	E			9 57 48 9 57 48			9 58 9 58	.1
35	Dec. 18	E	12 35 31 12 35 34		12 35 43 12 36 08	12 36 19 12 36 37		13 12 12 54	7. 8 15. 0
36	Dec. 27	N E N			3 42 38 3 42 38			3 48 3 49	10.0

REMARKS

- Phases well defined. Δ =2,560 km. PR₁ at 8:29:00; SR₁ at 8:33:33 on E and 8:33:25 on N.
- 2. Phases obscured by wind tremors. Δ =2,460 km. On N PR₁ appears at 7:54:52 and SR₁ at 7:59:17

Preliminary phases well defined. \(\text{\$\Delta} = 2,460 \) km. On N PR₁ appears at 5. Light local shock. Noticed at Vieques as similar to a distant explosion.
 P and L interpretations doubtful.
 Local shock.

- 10. S and L interpretations doubtful. Records partly obscured by wind tremors.
 11. P interpretations doubtful.
 12. Heavy microseism prevailing. Maximum occurs during S. No L waves evident.
- 13. $\Delta = 400 \text{ km}$.

- 13. \(\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exintex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$

- 23. An actual maximum of 0.4 mm. occurs at 4:11:07 on N. L weak.

- An actual maximum of 0.4 mm. occurs at 4:11:0/ on N. L weak.
 Activity on N barely perceptible.
 Local shock. Recorded on the H variometer at 20:24. L interpretation doubtful.
 S interpretation doubtful. No definite maximum on N.
 A=4,520 km. O=4:47:15. PR_{1E} at 4:56:44; PR_{1N} at 4:56:33; L_{2E} at 5:08:05.
 Felt in Vieques. Recorded on H variometer at 20:10. L interpretation doubtful.
 Felt in Porto Rico. P interpretation doubtful. An impulse occurs at 23:22:22 on N.
 A=3,620 km. O=14:49:51. PR_{1N} at 14:57:51; SR_{1E} at 15:04:51.
 Local shock. Recorded on H variometer. L interpretations doubtful. An emergence occurs on Late 23:22:22
- N at 5:38:32 18 at 4:53:53:2.

 33. $\Delta = 5,050$ km. O = 4:32:34. PR at 4:43:13; e_N at 4:45:41; PS_E (?) at 4:48:38; SR_{1E} at 4:51:15; eSR_{1N} at 4:51:37; L_{2E} at 4:58:12; eL_{2N} at 5:02:00; in at 4:59:35. N trace off paper. Recorded on the magnetograph.

 34. Felt in Vieques. L interpretation doubtful.

 35. Felt in Porto Rico. Recorded on the magnetograph. Tremors superimposed on the P waves.

 36. Local tremors. L interpretation doubtful.

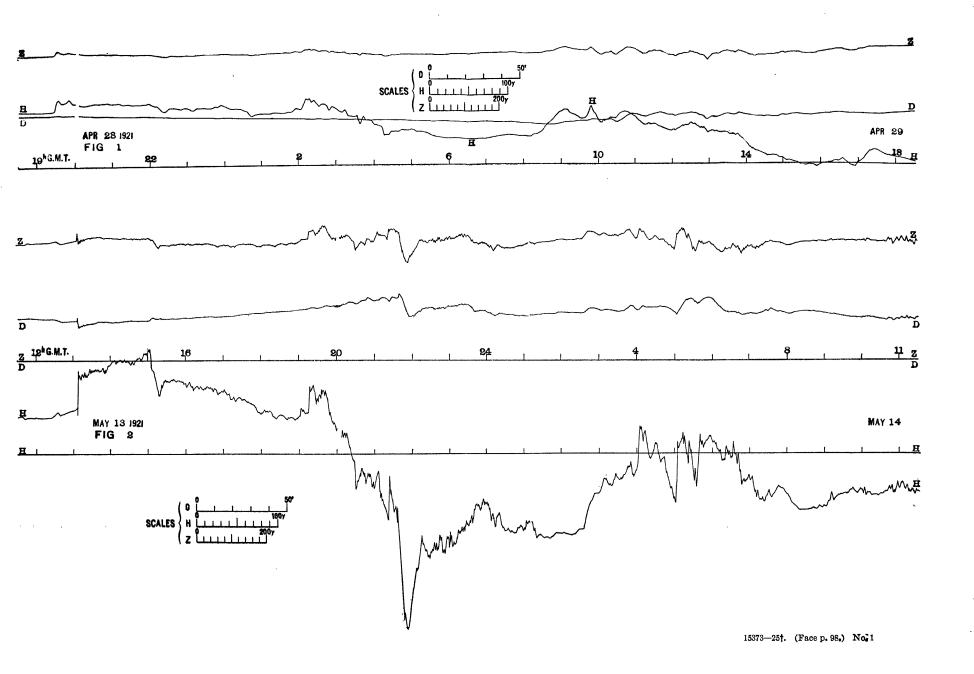
MAGNETIC STORMS

In the table below the relative magnitude of the disturbance is indicated by the figures 1, 2, 3, 4. When a storm began abruptly, the time of beginning is given to the nearest minute. For comparison with similar data for other observatories the Greenwich mean time may be found by adding 4 hours.

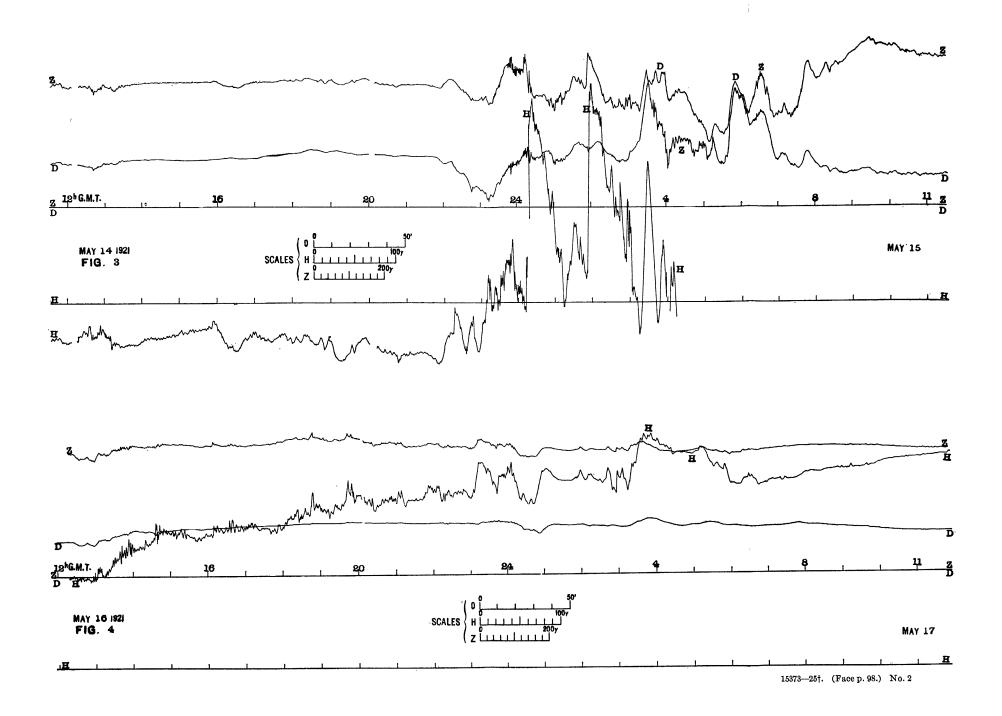
On the succeeding sheets will be found reproductions of the magnetograms showing the principal storms, reduced to one-half the original size. A storm selected for reproduction is indicated in the table by an asterisk after the date. Upward motion of the curves corresponds to increasing west declination, increasing H, and increasing Z.

$Principal\ magnetic\ disturbances$

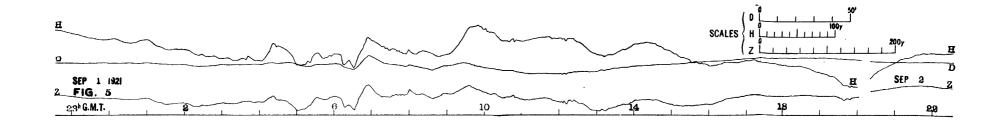
Date	60th meridian time of beginning	Duration in hours	Relative magni- tude	Date	60th meridian time of beginning	Duration in hours	Relative magni- tude
1921	h. m.	44	1	1922	h. m.	20	
Jan. 3 Jan. 9	$\frac{21}{2}$	44 47	1 1	Jan. 6	12 11	20 70	1
an 11	18	32	î	Jan. 8 Jan. 16 Jan. 24* Jan. 30	11	47	î
Jan. 15	7	72	î	Jan 24*	2	55	$\hat{\mathbf{z}}$
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ian 23	17	16	ī				_
Jan. 25	17	35	1	Feb. 3	3	29	1
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			_	Feb. 11 Feb. 14	17	39	$\frac{1}{2}$
Feb. 4	$\frac{15}{22}$	57	1	Feb. 14	10	87	2
Feb. 12 Feb. 16	19	31 12	1	Feb. 19	$\frac{16}{20}$	58 16	1
Feb. 18	20	32	1	Feb. 26 Feb. 28	10	70	2
Feb 20	17	17	î	1	10	10	
Feb. 20 Feb. 27	5	79	î	Mar. 3	13	16	1
	Ŭ		-	Mar. 5	3	22	î
Mar. 9	10	20	1	Mor 0	21 37	24	ī
Mar. 14	15	43	2	Mar. 10	1 09		
Mar. 21 Mar. 24	8	44	2	Mar. 12	7	40	2 2
Mar. 24	14	138	2	Mar. 14*	3 04	28	. 2
4 mm 2		10	,	Mar. 10 Mar. 12 Mar. 14* Mar. 17	3	97	1
A pr. 3	5	16	1	Mar. 24 Mar. 28	22	$\frac{32}{124}$	1 2
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A pr. 20	0 32	100	2	Apr. 11	14	89	ĩ
A pr. 28*	15 28	37	2 2	Apr. 11	15	13	1
			-	Apr. 20	12	48	2 2
May 3	1	28	1	Apr. 22	23	165	2
May 3 May 7 May 11*	18	73	1				_
May 11*	16	276	4	May 4	19	153	2
May 26	9	64	1	May 16	8	20	1
iuno 2	6 42	42	1	May 16 May 20 May 25	12 3	92 48	1
une 3	2	100	$\frac{1}{2}$	Way 25	9	40	
June 13	$1\overline{2}$	26	ī	June 1	0	50	1
June 28	17	30	i	June 2	8	24	î
anc 20111111111111111111111111111111111111	1.		-	June 4	16	59	$\hat{\mathbf{z}}$
fuly 6	10	91	. 1	June 11 June 16	20	56	2
July 12	9	43	1	June 16	12	148	1
July 14	18	56	1	June 27	1	168	2
July 22 July 28	11	37	1	Turker 19	7		
uly 28	18	55	1	July 13 July 23 July 26	16	20	1 1
Ang 9	12	25	1	Tuly 26	8	145	2
Aug. 2 Aug. 4	13	65	2	VALUE 20	"	140	
Aug. 7	23	22	1	Aug. 5	1	30	1
Aug. 10	21	27	î	Aug. 20	19	79	1
Aug. 7 Aug. 10 Aug. 14	15	53	1	Aug. 25 Aug. 29	17	39	1
Aug. 25 Aug. 30	21	47	1	Aug, 29	17	35	1
Aug. 30	1	29	1	14		***	_
	177	1 0-		Sept. 6	20	104	2
Sept. 1*	17 15	25 35	2	Sept. 12	23 21	77 -39	2
Sept. 7 Sept. 22	20	18	1 1	Sept. 6	20	53	2 2 1 1
Sept. 22	12	38	2			- 33	
Sept. 28 Sept. 30	16	22	2	Oct. 2	16	32	1
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Oct. 20	9	35	1	Nov. 20	22 13	34 78	1 2
Nov 5	11	43	1	Nov. 27	13	1 18	2
Nov. 5 Nov. 13 Nov. 15*	16	8	1	Dec. 1	5	22	1
Nov 15*	19	82	2	Dec. 5		28	i
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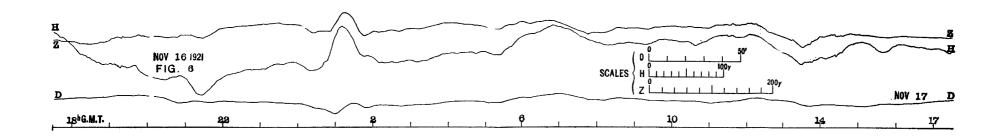


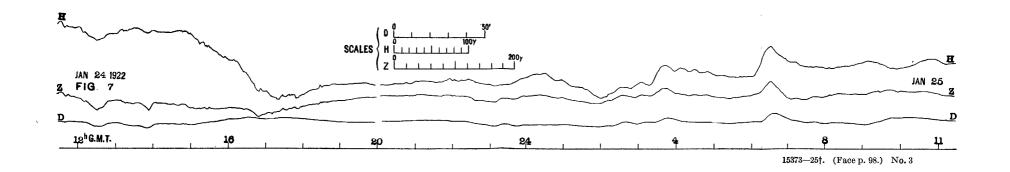
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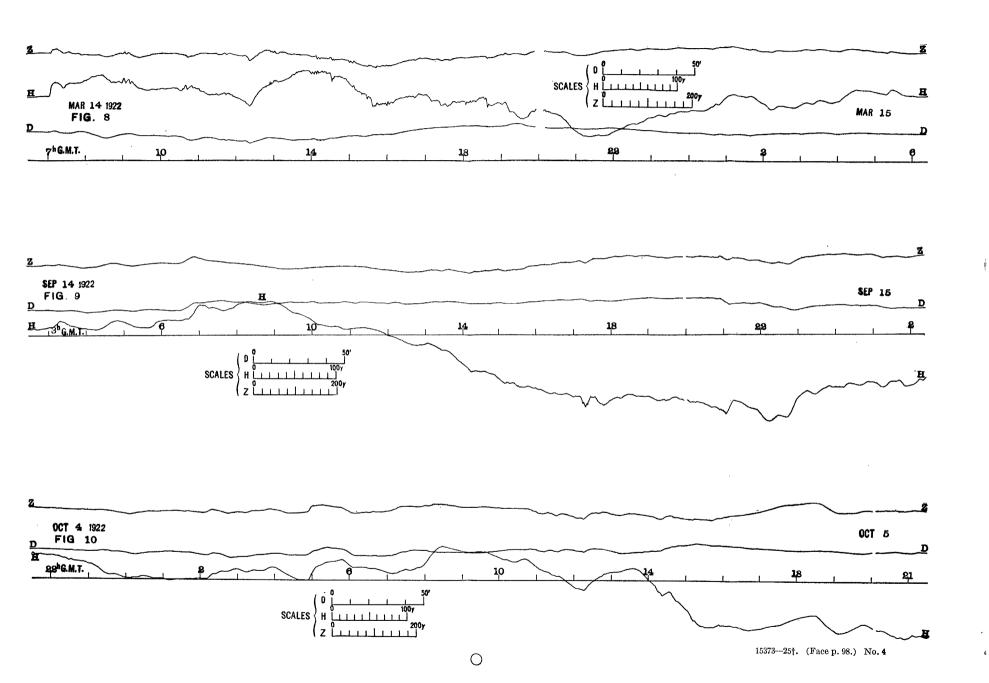
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